Table of Contents

Welcome to Newberg High School.................................................................4
Scheduling Information & Schedule Change Process ..........................5
Graduation Requirements.................................................................6
Academic Information (Grades, Dual Credit, Advanced Placement) .. 7-10
College & University Information.......................................................11-12
Future Planning..................................................................................13
Career Pathways ..................................................................................14-26
Co-Curricular Athletics & Activities ..................................................27-29
Course Offerings ..................................................................................30-66
  Art......................................................................................................31-32
  Business .........................................................................................33-34
  ELL – English Language Learners..................................................35
  Family & Consumer Sciences ..........................................................36-38
  Health..............................................................................................38
  Industry & Engineering ..................................................................39-42
  Language Arts .................................................................................43-45
  Mathematics ...................................................................................46-48
  Natural Resource Sciences ..............................................................49
  Other Programs ...............................................................................50-51
  Performing Arts ...............................................................................52-56
  Physical Education .........................................................................56-57
  Science............................................................................................58-60
  Second Language ...........................................................................61-63
  Social Science................................................................................64-66
  Special Education ...........................................................................67
Principal’s Message

Newberg High School Tigers:

Thank you for taking the time to peruse your course guide in preparation for the 2020-2021 school year. As your principal, I want to work with students, parents, staff and community to ensure ALL students graduate career, college and life ready. A student’s high school experience can be one that accelerates them towards their personal dreams and aspirations. Graduating from high school opens doors to possibilities and opportunities. Whether a student’s aspirations lead them to college, apprenticeship or directly into the workforce, there are growing opportunities at Newberg High School to prepare them for that next step.

There is a series of required courses that all students in Oregon must complete. Additionally, we are fortunate to offer many elective and career and technical courses to support students as they prepare for their college and/or career aspirations. Our school is proud of its growing community partnerships that create relevant opportunities for students in many of our courses. ALL students and parents have access to their school counselor and our Opportunity Center Specialist to help them plan a path to their goals and access opportunities to help them get there.

Newberg High School also offers a wide variety of clubs, activities, sports and performing arts to meet the interests of students and enhance their overall experience. Student involvement will help make the high school experience more engaging, successful, and memorable. We encourage everyone, including adults, to get involved to make sure these opportunities continue to grow and support the success of our students.

Our dedicated staff is committed to delivering an exceptional educational experience for ALL students. I encourage parents to reach out to staff to learn more about opportunities and to work with staff to support the success of your student. We want ALL students at Newberg High School to feel cared about and encouraged to work hard towards their vision of a successful future.

Take Care,
Tami Erion, Principal
Scheduling Information

The Newberg High School Course Guide contains valuable course information that we hope is carefully reviewed and guides course selection for the 2020-2021 school year. This guide should be used as a tool to help plan course work that reflects your post-secondary goals. Each spring students begin forecasting for the following year. We ask students to select courses with careful consideration and consult with their current teachers for assistance on best placements. We encourage parents to have conversations around the selected courses prior to signing the forecasting sheet. A list of all classes offered is included in this course guide. The listing displays the name of the class, number of credits, number of semesters, materials fees, grade level and any prerequisite classes required. As you plan your education for next year we ask you to keep the following in mind:

- Are you selecting coursework that supports future goals?
- Are you taking the most rigorous and challenging course work that meets your capabilities?
- The classes offered at NHS are based on student requests.
- Are you prepared to complete the courses requested on your forecasting sheet?
- Check prerequisites before selecting a class.
- Students should be consulting with their current teachers regarding the selection of core classes in math, social studies, science, and English.
- Teacher conversation regarding Advanced Placement course work is highly encouraged thereby facilitating more informed decisions about expectations and potential for success.
- Students participating in athletics/activities must be enrolled in 5 classes, which is equivalent to full-time status.
- Your counselor is a great resource during the forecasting process.

Schedule Change Procedure

Prior to requesting a schedule change please read through the following procedure.

Every attempt will be made to honor forecasting requests and build the best schedule for each student. For scheduling concerns, please come to the Counseling Center.

Schedule change requests will be made for the following reasons:

- A period is missing.
- The student was placed in the wrong level (i.e. needs to take Spanish 1, but is in Spanish 2).
- A required class/subject is missing.
- Illness/Injury (a doctor’s note may be required)

Schedule changes are typically not made for the following:

- Requesting for a specific teacher.
- Change of lunch period.
- Change of unwanted elective or core class. (including AP* classes)

A student who drops a class AFTER 10 days from the start of the semester will receive an F for the semester, regardless of current grade in class. The F will appear on their transcript and impact the student’s GPA.

Counselor and administrator approval is required for extenuating circumstances.

*Signing up for AP classes requires a yearlong commitment. AP classes will not be dropped at semester unless extenuating circumstances exist. Parent and student signature on forecasting sheet is required for AP participation.
Graduation Requirements

Students must earn 26 credits in the designated subject areas. In addition, students must complete the personalized learning requirements and show proficiency in essential skills. **One half (.5) credit is earned for each class successfully taken and passed each semester.**

<table>
<thead>
<tr>
<th></th>
<th>Standard Diploma</th>
<th>Honors Diploma (UNWEIGHTED 3.5 GPA)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Credit Requirements</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| English/Language Arts  | Credits Required: 4  
Includes reading, writing, speaking, listening, literature with emphasis on expository writing each year for four years | Credits Required: 4  
Two (2) of the four (4) credits must be taken in Advanced Placement or dual college credit classes |
| Mathematics            | Credits Required: 3  
All at Algebra 1 and above and any other advanced math courses accepted for admission to an Oregon Public University | Credits Required: 4  
Includes one (1) credit in mathematics beyond Algebra 2 (including Advanced Placement or college bearing credit courses.) |
| Science                | Credits Required: 3  
Includes 1 physical science and 1 life science (2 with lab experiences) | Credits Required: 3  
Includes two (2) credits of Advanced Placement or college bearing credit or other approved advanced coursework in life science or physical science |
| Social Sciences        | Credits Required: 3  
Includes World Studies, American Studies, Government, and Economics | Credits Required: 3  
Includes two (2) credits of Advanced Placement or college bearing credit or other approved advanced coursework |
| Physical Education     | Credits Required: 1  | Credits Required: 1                  |
| Health                 | Credits Required: 1  | Credits Required: 1                  |
| Second Language        | Credits Required: 2  
With proficiency in 2nd Language (two years of same language) | Credits Required: 3 |
| The Arts/Career Technical Education | Credits Required: 1 | Credits Required: 1 |
| Electives              | Credits Required: 8  | Credits Required: 7                  |
| Total Credits          | Credits Required: 26 | Credits Required: 28                 |
| **Essential Skills**   |                  |                                      |
| Proficiency in all Essential Skills: Reading/Writing/Math Required | | |
| Personalized Learning Requirements: | | |
| Ed Plan & Profile: Required for all diplomas | | |
| Career-Related Learning Experiences: Required for all diplomas | | |
| Extended Application: Capstone project for all seniors | | |
Academic Information

Essential Skills
In addition to meeting the course and credit requirements, students must meet the Essential Skills graduation requirements by demonstrating proficiency in reading, writing and math. Proficiency in these skills can be demonstrated through a variety of assessment options that are administered under secure conditions.

- The Oregon Statewide Assessments (Smarter Balanced)
- Samples of student work administered under secure conditions and scored by trained teachers
- Additional standardized assessments (such as the PSAT, SAT and ACT)

To support students in meeting proficiency in Essential Skills, students may be enrolled in Lab/Tutorial courses. More information about Essential Skills can be found at the Oregon Department of Education: http://www.ode.state.or.us/search/page/?id=2042

Personalized Learning
The following requirements personalize the diploma for each student and help prepare them for their post-high school goals. Education Plan and Profile: Students develop an Education Plan and Profile to guide their learning and document academic achievement and progress toward their personal, career and post-high school goals. Career-Related Learning Experience: Students participate in experiences that connect classroom learning with real life experiences in the workplace, community, and/or school relevant to their education. Extended Application: Students apply and extend their knowledge in new and complex situations related to the student’s personal and career interests and post-high school goals through critical-thinking, problem solving, or inquiry in real world contexts. It is recommended students choose a pathway to access courses leading to their post-secondary goals. Pathway information can be found on pages 14-26 of this guide.

Academic Information

Valedictorian/Salutatorian:
The valedictorians will be students with an unweighted grade point average of 4.0 or above and earning an Honors Diploma. The salutatorian will be the student with the next highest unweighted grade point average and earning an Honors Diploma.

Grading:

Unweighted Grades A high school course with an unweighted grade shall be defined as:
- A standard course that does not receive a four-year public university credit.
- A standard course that does not have an “Advanced Placement” (AP) designation.

Weighted Grades (Grade Weighting) A high school course with grade weighting shall be defined as:
1. A course for which a student may receive Oregon University System University Transfer credit.
2. A course receiving an “advanced placement” (AP) designation by the College Board or other national entity with authority to certify advanced placement courses.
Academic Information

<table>
<thead>
<tr>
<th>Letter-Grade Mark</th>
<th>Unweighted Grade</th>
<th>Weighted Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>NC</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Pass/No Pass Grades
Pass/No Pass Grades are issued for courses which do not have a recognized set of state, national or industry standards. Pass/No Pass courses may include: Aide, Tutor, PE Leader, Work Experience, etc. Courses issued a Pass/No Pass will be designated as such in the course guide. Pass/No Pass courses do not calculate into the GPA, but shall be issued elective credit towards graduation requirements when passed.

Recovering A Failed Course
- Flexible Learning Center (FLC)
- Summer School
- Repeating a course (in the classroom)

Flexible Learning Center (FLC)
The Flexible Learning Center is an opportunity for students to recover credit in a class in which they previously earned a grade of "F." Most core content classes are available through a student's counselor recommendation. Online learning expands options for students to get back on track for graduation. Students work independently and are not charged a fee, unlike summer school. Credit is granted in the same manner as other courses and courses are managed by a licensed teacher. Successful candidates for credit recovery have good attendance, have made significant progress in the classroom version of the course, are self-motivated, and are ready to take responsibility for their learning goals. Basic keyboarding skills are also very helpful. NOTE: Cannot be used to meet NCAA core course requirements.

Repeating Courses Previously Taken and Passed
Some courses may be repeated for credit. This is noted within this course guide under course description. Both grades will show on the transcript and be calculated into the GPA.

Grade Change Requests
Grade change requests must be submitted to the teacher of record in writing by the end of the next semester in order to be considered.
**Academic Information**

The following is a list of courses at NHS that will receive a weighted grade:

<table>
<thead>
<tr>
<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP English Language &amp; Composition</td>
<td>AP Computer Science Principles</td>
</tr>
<tr>
<td>AP English Literature &amp; Composition</td>
<td>AP Computer Science A</td>
</tr>
<tr>
<td>Pre-Calculus</td>
<td>AP European History</td>
</tr>
<tr>
<td>AP Calculus AB</td>
<td>AP US History</td>
</tr>
<tr>
<td>AP Statistics</td>
<td>AP Government</td>
</tr>
<tr>
<td>AP Chemistry</td>
<td>AP Music Theory</td>
</tr>
<tr>
<td>AP Physics</td>
<td>AP Studio Art</td>
</tr>
</tbody>
</table>

**Advanced Placement**

Newberg High School students have the opportunity to take Advanced Placement (AP) classes in English, Social Sciences, Math, Science, Computer Science, and Art. Through the AP Exams, students have the opportunity to earn credit at most of the nation’s colleges and universities. Advanced Placement courses offer numerous benefits. AP coursework allows students to get a head start on college level work, stand out in the college admissions process, and broaden their own intellectual horizons. The only prerequisite to taking an AP course is a strong curiosity about the subject and a willingness to work hard. Additionally, during forecasting, students and parents/guardians will be asked to sign an agreement regarding enrollment in AP courses. For more information, please refer to the course descriptions or contact your counselor. Fee waivers may be available for the AP exam fees.

The following website will assist students in determining potential credit given by colleges based on AP exam scores:

https://apstudent.collegeboard.org/creditandplacement/search-credit-policies
**Academic Information**

**College Dual Credit Options** Newberg High School currently articulates coursework with Portland Community College, and has potential articulation opportunities with Linn-Benton Community College, Chemeketa Community College and OIT & WOU (through Willamette Promise). Students have the opportunity to earn dual high school and college credit. College credit is awarded based on individual course requirements. Please see below and refer to course descriptions in this catalog for more information. Course offerings determined by teacher accreditation and availability.

<table>
<thead>
<tr>
<th>NHS Course Title</th>
<th>College Course Information</th>
<th>Course Credits</th>
<th>Post-Secondary Articulating Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer Aided Design &amp; Drafting</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAD Design &amp; Software 1</td>
<td>CADD 185</td>
<td>3 credits</td>
<td>PCC+</td>
</tr>
<tr>
<td><strong>Computer Science</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exploring Computer Science</td>
<td>CS 160</td>
<td>4 credits</td>
<td>WOU*</td>
</tr>
<tr>
<td><strong>English</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English 4 (Writing 121)</td>
<td>WR 121</td>
<td>4 credits</td>
<td>WOU*</td>
</tr>
<tr>
<td><strong>Landscape Technology</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Horticulture</td>
<td>LAT 106</td>
<td>4 credits</td>
<td>PCC</td>
</tr>
<tr>
<td>Ornamental Horticulture</td>
<td>LAT 109</td>
<td>3 credits</td>
<td>PCC</td>
</tr>
<tr>
<td><strong>Machine Manufacturing Technology</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering Processes 2</td>
<td>MCH 210</td>
<td>6 credits</td>
<td>PCC+</td>
</tr>
<tr>
<td><strong>Math</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre Calculus A</td>
<td>MTH 111</td>
<td>5 credits</td>
<td>PCC</td>
</tr>
<tr>
<td>Pre Calculus B</td>
<td>MTH 112</td>
<td>5 credits</td>
<td>PCC</td>
</tr>
<tr>
<td>Calculus A</td>
<td>MTH 251</td>
<td>4 credits</td>
<td>PCC</td>
</tr>
<tr>
<td>Calculus B</td>
<td>MTH 252</td>
<td>5 credits</td>
<td>PCC</td>
</tr>
<tr>
<td>AP Statistics</td>
<td>MTH243</td>
<td>5 credits</td>
<td>PCC</td>
</tr>
<tr>
<td><strong>Spanish</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spanish 4A/B</td>
<td>SPA 201</td>
<td>4 credits</td>
<td>PCC</td>
</tr>
<tr>
<td>Spanish 3, 4, 5; Native Speakers 1 &amp; 2</td>
<td>SPA 101-103</td>
<td>4 credits</td>
<td>WOU*#</td>
</tr>
<tr>
<td>Spanish 3, 4, 5; Native Speakers 1 &amp; 2</td>
<td>SPA 201-203</td>
<td>4 credits</td>
<td>WOU*#</td>
</tr>
<tr>
<td><strong>Science</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Honors Biology</td>
<td>BIO 102</td>
<td>4 credits</td>
<td>WOU*</td>
</tr>
<tr>
<td>Introduction to Medical Sciences</td>
<td>BIO 109</td>
<td>2 credits</td>
<td>OIT*</td>
</tr>
<tr>
<td>Honors Chemistry</td>
<td>CHEM 104</td>
<td>4 credits</td>
<td>WOU*</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology</td>
<td>BIO 103</td>
<td>4 credits</td>
<td>OIT*</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology</td>
<td>BIO 200</td>
<td>2 credits</td>
<td>OIT*</td>
</tr>
</tbody>
</table>

+ These courses are pending approval for instructor qualifications

* These courses are pending final approval from Willamette Promise

# Spanish credits through Willamette Promise vary by student performance on final assessment. Students may earn up to 8 credits per year for Spanish.
College & University Information

Oregon Public University (OPU) Admission Requirements
Below are the minimum credit requirements for an Oregon Public University. Please see University websites for specific requirements.

<table>
<thead>
<tr>
<th>Oregon Public University Course Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
</tr>
<tr>
<td>4 Credits with a C or better</td>
</tr>
<tr>
<td>Math</td>
</tr>
<tr>
<td>3 Credits culminating with Algebra 2 or higher, with a C or better</td>
</tr>
<tr>
<td>Science</td>
</tr>
<tr>
<td>3 Credits with a C or better</td>
</tr>
<tr>
<td>Social Science</td>
</tr>
<tr>
<td>3 Credits with a C or better</td>
</tr>
<tr>
<td>Second Language</td>
</tr>
<tr>
<td>2 Credits with a C or better</td>
</tr>
<tr>
<td>SAT and/or ACT</td>
</tr>
<tr>
<td>Required</td>
</tr>
</tbody>
</table>

Community College Requirements
Oregon community colleges have an open enrollment admission policy. Students can complete a certificate program, a 2-year Associate’s Degree, or the Oregon Transfer Module in order to transfer to a 4-year college or university. Placement testing at community college is required before any courses can be scheduled. Students are not required to take the SAT or ACT for community college admission.

Private Colleges and Universities Private and out of state colleges and universities have specific entrance requirements. Consult your counselor or research requirements on CIS** or the college website.

College Admission Test Dates: http://www.collegeboard.org

<table>
<thead>
<tr>
<th>Anticipated SAT Test Dates</th>
<th>ACT Test Dates</th>
<th>PSAT* Test Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 7, 2020</td>
<td>April 4, 2020</td>
<td>October 14, 2020</td>
</tr>
<tr>
<td>May 2, 2020</td>
<td>June 13, 2020</td>
<td></td>
</tr>
<tr>
<td>June 6, 2020</td>
<td>July 18, 2020</td>
<td></td>
</tr>
<tr>
<td>August 29, 2020</td>
<td>September 12, 2020</td>
<td></td>
</tr>
<tr>
<td>October 3, 2020</td>
<td>October 24, 2020</td>
<td></td>
</tr>
<tr>
<td>November 7, 2020</td>
<td>December 12, 2020</td>
<td></td>
</tr>
<tr>
<td>December 5, 2020</td>
<td>February 6, 2021</td>
<td></td>
</tr>
<tr>
<td>March 13, 2021</td>
<td>April 10, 2021</td>
<td></td>
</tr>
<tr>
<td>May 8, 2021</td>
<td>June 12, 2021</td>
<td></td>
</tr>
<tr>
<td>June 5, 2021</td>
<td>July 17, 2021</td>
<td></td>
</tr>
</tbody>
</table>

*The PSAT will be offered to all sophomores at Newberg High School on this date free of charge. Juniors are encouraged to take the test on this date as well. There will be a small fee for test materials.

** See page 13 for information regarding CIS
## College & University Information

### Selective College Admissions

Core course requirements vary from state to state, and many of the more selective colleges will want to see a high school record that goes beyond minimum graduation requirements. AP and dual credit courses are a must at the most selective schools. Also, some schools require one year or more of fine/applied arts and three or more years of consecutive foreign language. Note that many colleges with holistic admissions do not have specific course requirements for admission. **It is your responsibility to check the admission requirements of the specific schools you plan to apply to as requirements may change annually.** The chart below shows minimum course recommendations for a sampling of selective colleges.

<table>
<thead>
<tr>
<th>College</th>
<th>English</th>
<th>Math</th>
<th>Science</th>
<th>Social Studies</th>
<th>World Language</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>George Fox Univ.</td>
<td>4 years</td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
<td></td>
<td>NHS grad requirements</td>
</tr>
<tr>
<td>Linfield</td>
<td>4 years</td>
<td>4 years through Alg. 2</td>
<td>3-4 years</td>
<td>3-4 years</td>
<td>2-4 years</td>
<td></td>
</tr>
<tr>
<td>MIT</td>
<td>4 years</td>
<td>Through Calculus</td>
<td>Bio, Chem, Physics</td>
<td>3 years</td>
<td>2 years</td>
<td></td>
</tr>
<tr>
<td>Princeton</td>
<td>4 years</td>
<td>4 years (w/Calc for Engineering students)</td>
<td>3 years</td>
<td>3 years</td>
<td>4 years</td>
<td>AP &amp; Honors courses, visual/performing arts study</td>
</tr>
<tr>
<td>Reed</td>
<td>4 years</td>
<td>3 years</td>
<td>3 years</td>
<td>3 years</td>
<td></td>
<td>No specific courses required. Take rigorous schedule.</td>
</tr>
<tr>
<td>UCLA</td>
<td>4 years</td>
<td>3 years (4 recommended)</td>
<td>3 years</td>
<td>3 years</td>
<td>2 years (3 preferred)</td>
<td>Calculus recommended, 1 year of fine/applied art required, 1 year of college prep elective.</td>
</tr>
<tr>
<td>U of Washington</td>
<td>4 years</td>
<td>3 or 4 years (must include senior year math or chem/physics)</td>
<td>3 years</td>
<td>3 years</td>
<td>2 years</td>
<td>.5 fine, visual/perform art and .5 academic elective required. Rigor emphasized.</td>
</tr>
<tr>
<td>Willamette</td>
<td>4 years</td>
<td>4 years</td>
<td>3-4 years</td>
<td>4 years</td>
<td>3-4 years</td>
<td>Art, music classes desirable</td>
</tr>
<tr>
<td>Stanford</td>
<td>4 years</td>
<td>4 years</td>
<td>3 or more years, including Bio, Chem and Physics</td>
<td>3 or more years</td>
<td>3 years</td>
<td></td>
</tr>
<tr>
<td>U of Portland</td>
<td>4 years</td>
<td>3-4 years</td>
<td>3-4 years</td>
<td>3-4 years</td>
<td>2-4 years</td>
<td>Rigor, AP classes, encouraged to take 4-5 academic courses in senior year</td>
</tr>
<tr>
<td>Gonzaga</td>
<td>4 years</td>
<td>3-4 years</td>
<td>3-4 years</td>
<td>3 years</td>
<td>2-3 years</td>
<td></td>
</tr>
<tr>
<td>USC</td>
<td>4 years</td>
<td>3-4 years (Alg through Trig or Calc)</td>
<td>3-4 years</td>
<td>3 years</td>
<td>2-4 years</td>
<td>3 years academic electives</td>
</tr>
</tbody>
</table>
Future Planning

CIS
The Oregon Career Information System (CIS) is a web-based program to assist students in making future plans. Students are able to access this program from any computer with Internet access. Students and parents are encouraged to visit the website. Below is the web address as well as the login information needed to access the site.
Web Address: http://oregoncis.uoregon.edu
Login: nhstigers
Password: victory

Students can use their school login and password to create a personal portfolio. All exploration activities and personalized learning requirements (for graduation) done through CIS can then be saved for reference.

District Website Visit the following links from the Newberg High School website for more information on college and career planning:
http://www.newberg.k12.or.us/nhs/newberg-high-school-graduation-requirements
http://www.newberg.k12.or.us/nhs/counseling

College and Career Exploration
Students will participate in numerous career and college exploration opportunities in grades 9-12. These activities encourage active career related research – taking into account each student’s interests, strengths and future plans, whether it is a 4-year college or university, a two year college, the workforce, the military or technical training.

Sample 4 Year Education Plan

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
<th>9th</th>
<th>10th</th>
<th>11th</th>
<th>12th</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Arts</td>
<td>4</td>
<td>English 1</td>
<td>English 2 or Accel.</td>
<td>English 2, AP Lang or</td>
<td>English 4, AP Lit or</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>English 2</td>
<td>Lit Author 1</td>
<td>Lit Author 2</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
<td>Algebra 1 or higher</td>
<td>Geometry or higher</td>
<td>Algebra 2 or Integrated Math or higher</td>
<td>Algebra 2 or high recommended for all, esp. college bound</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
<td>Physical Science or Biology</td>
<td>Biology or Chemistry</td>
<td>Other Science (required)</td>
<td>Recommended for all, esp. college bound</td>
</tr>
<tr>
<td>Social Science</td>
<td>3</td>
<td>Modern World</td>
<td>Modern US or AP US History</td>
<td>AP European History (elective)</td>
<td>Government &amp; Economics, or AP US Government</td>
</tr>
<tr>
<td>Health</td>
<td>1</td>
<td>Health 1</td>
<td>Health 2 (or in junior year)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Ed.</td>
<td>1</td>
<td>Frosh PE</td>
<td>Choice PE credit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>World Language</td>
<td>2</td>
<td>Spanish 1, German 1, French 1, or Native Speakers 1</td>
<td>Spanish 2, German 2, French 2, or Native Speakers 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts/Career &amp; Tech Education</td>
<td>1</td>
<td>Choice</td>
<td>Choice</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>8</td>
<td>Choice</td>
<td>Choice</td>
<td>Up to 4 credits of electives</td>
<td>Up to 5 credits of electives</td>
</tr>
<tr>
<td>Essential Skills</td>
<td>X</td>
<td>Work Samples</td>
<td>Work Samples</td>
<td>Smarter Balanced or Work Samples</td>
<td>Work Samples (if needed)</td>
</tr>
</tbody>
</table>
CAREER PATHWAYS

Choosing a career pathway is an important way to help clarify your goals, provide you with a relevant selection of elective courses, and prepare you to succeed in post-secondary education and/or careers. By selecting a career pathway, you strengthen the opportunity to gain the qualities and skills that are vital for employment and productivity in business, industry and the community.

The six general career areas are:

- Agriculture, Food and Natural Resource Systems
- Arts, Information and Communications
- Business and Management
- Health Sciences
- Human Resources
- Industrial and Engineering Systems

Within each career area are several pathways that direct you to more focused study for specific goals. The pathways available at Newberg High School are:

- Agricultural Science & Technology (Veterinary & Animal Science; Environmental Science & Natural Resources; Metal Design & Fabrication; and Plant Science – Horticulture)
- Business & Management
- Education
- Engineering
- Information & Communication Technology (in development)
- Graphic Design (Visual Communication)
- Hospitality & Tourism Management/Culinary
- Performing Arts

DID YOU KNOW?

- Students in CTE programs have a higher-than-average high school graduation rate. The average high school graduation rate for students concentrating in CTE programs is 90.18% compared to an average national freshman graduation rate of 74.9%.
- CTE students outperform their peers in reading and math—at both the secondary and postsecondary level.
- CTE students surpassed state target performance levels in secondary reading/language arts, secondary mathematics, and in both secondary and postsecondary technical skill attainment.
- High-risk students in CTE programs are 8 to 10 times less likely to drop out of high school in 11th or 12th grades.
- CTE courses help students understand the relevance and value of their core academic courses in math, science, English and social studies—and apply them to solve real-world problems.

The following pages outline the Career Pathway options available at Newberg High School. Please take some time to review pathway options and consider taking courses of interest to you. To complete a Career Pathway, students need to earn 3 credits in a specific area (these must include all “required” pathway courses in addition to student selected elective courses).
AGRICULTURAL SCIENCE & TECHNOLOGY

A full list of Ag Science & Technology Courses can be found on page 18

Agriculture Science and Technology is a broad pathway encompassing the following focus areas which are included in detail on the following pages. The Focus Areas include:
- Veterinary and Animal Science
- Environmental Science and Natural Resources
- Metal Design and Fabrication
- Plant Science – Horticulture

Veterinary and Animal Science

Overview
The Animal Science Career and Technical Education (CTE) Pathway focuses primarily on providing instruction on general health care, emergency responses, and nutrition for livestock animals, dogs, and cats. Using materials from veterinary technician degree programs and animal production sources, this pathway provides students with a strong background in the medical field by covering topics such as sutures, bandaging, medicating, and physical exams. Students will get an understanding of industry standards in animal agriculture production and consumption. Students may work with live animals to learn handling, restraint and medical techniques. Students are taught how to evaluate animals for normal and abnormal behavior, illness, and desirable conformation.

Recommended Courses:
- Animal Science
- Equine Science
- Vet Science
- Independent Ag Study

Other Courses:
- Horticulture
- Agriculture Natural Resources
- Exploring Computer Science

Top 10 Careers
- Agricultural Educators
- Machine Operators
- Environmental Engineer
- Veterinarian
- Welder
- Business Manager
- Nursery Manager
- Vineyard Manager
- Science Researcher
- Business Sales
Environmental Science and Natural Resources

Overview
This pathway is designed for students to learn the processes of data collection and analysis using state of the art field equipment and data-handling software – including GPS and GIS map use. Students will engage in hands-on field experiences in the focus areas of Aquatic Ecology; Soil Ecology; Wildlife Ecology & identification; and Forest Ecology. Students can then use their analysis of that data to make Natural Resource management decisions of real world problems with which our community, Oregon and the world are dealing. There are multiple ongoing restoration projects occurring in our community that are student-led and operated.

Recommended Courses:
- Agriculture Natural Resources
- Biology/Oregon Ecology

Other Courses:
- Intro to Ag Science & Technology
- Marine Biology
- Chemistry
- Physics
- Horticulture
- Integrated Design Studio
- AP Computer Science Principles

Metal Design & Fabrication

Overview
The Metal Fabrication and Welding Pathway is designed to help students develop the technical qualifications and life skills needed to begin a career in the welding industry.

Recommended Courses:
- Welding 1
- Welding 2
- Welding 3

Other Courses:
- Intro to Ag Science & Technology
- Integrated Design Studio
- CAD 1
- CAD 2
Plant Science – Horticulture

Overview
The Plant Science – Horticulture pathway is focused on helping students study plants and their growth. This helps producers of food, feed, and fiber crops to continue to provide for a growing population while conserving natural resources and maintaining the environment. Individuals in this pathway also develop ways to improve the nutritional value of crops, and the general quality of seeds. They will study genetic engineering to develop crops resistant to pests and drought.

Recommended Courses:
- General Horticulture
- Ornamental Horticulture

Other Courses:
- Agriculture Natural Resources
- Biology/Oregon Ecology
- Biology
  - Chemistry
- Building Construction Technology
- Food & Nutrition
- AP Computer Science Principles
AGRICULTURAL SCIENCE & TECHNOLOGY

This table includes all courses related to the Agricultural Science & Technology Program of Study. See previous pages for descriptions of focus areas within this Program of Study.

<table>
<thead>
<tr>
<th>Class Title</th>
<th>Required or Elective</th>
<th>NHS Credit Amount</th>
<th>College Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Marketing Management</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Welding 1</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Welding 2</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Welding 3</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Vet Science</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Animal Systems</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Equine Science</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Agricultural Leadership</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Agricultural Mechanics</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Agriculture Natural Resources</td>
<td>Elective</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Agriculture Business Management</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Intro to Ag Science &amp; Technology</td>
<td>Elective</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>General Horticulture</td>
<td>Required</td>
<td>.5</td>
<td>4 (PCC)</td>
</tr>
<tr>
<td>Ornamental Horticulture</td>
<td>Elective</td>
<td>.5</td>
<td>5 (PCC)</td>
</tr>
<tr>
<td>Independent Ag Seminar</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Biology/Oregon Ecology</td>
<td>Elective</td>
<td>1.0</td>
<td></td>
</tr>
</tbody>
</table>

Pathway Contact(s):

Peter Siderius
503-554-5223
sideriusp@newberg.k12.or.us

Matthew Miller
503-554-5271
millerm@newberg.k12.or.us
Business & Management Career Pathway

The Business and Management Career Learning Area focuses on the business and entrepreneurial needs of Oregon's students as they prepare to enter and succeed in the world of business. The careers in this area span virtually every industry in the world. Studies in Business and Management focus on the commonalities among most businesses, including concepts like personnel management, marketing, planning, finance, and resource management. This area also includes careers in hospitality and tourism.

Class Title | Required or Elective | NHS Credit Amount | College Credits
---|---|---|---
Intro to Business | Required for Pathway | .5 | 
Marketing Management | Elective | .5 | 
Sports & Events Marketing | Elective | .5 | 
Business Communication | Elective | .5 | 
Consumer Economics | Elective | .5 | 
Retail Marketing | Elective | .5 | 

Pathway Contact(s):
Patricia Legacy | 503-554-5344 | legacyp@newberg.k12.or.us

Top 10 Careers
- Statistician
- Mathematician
- Financial Manager
- Medical & Health Services Manager
- Actuary
- Operations Research Analyst
- Business Operations Manager
- Financial Advisor
- Social & Community Services Manager
Design & Construction Pathway

We are all about student-led design/build projects for community benefit that give you the skills employers want to see: creativity, critical thinking, collaboration, and strong communication skills. We build everything from custom furniture to chicken coops, and tiny homes for community members who have experienced homelessness. Students will gain hands-on skills and even core credit through our many offerings.

<table>
<thead>
<tr>
<th>Class Title</th>
<th>Required or Elective</th>
<th>NHS Credit Amount</th>
<th>College Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geometry in Construction</td>
<td>Elective / Core</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Integrated Design Studio</td>
<td>Elective / Core</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Furniture Design</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Welding 1</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Welding 2</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Welding 3</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Woods 1</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Woods 2</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
</tbody>
</table>

Top 10 Careers
- Architect
- Interior Designer
- Contractor
- Developer
- Industrial Designer
- Construction Superintendent
- Carpenter
- Structural Welder
- Cabinet Maker
- Draftsperson

Pathway Contact(s):
Matthew Miller  503-554-5271  millerma@newberg.k12.or.us
The goal of the Education and Related Careers Pathway is to prepare students to work in education and child-related career fields. Students will work within the school district and community to gain hands-on experience in these careers.

### Class Title

<table>
<thead>
<tr>
<th>Class Title</th>
<th>Required or Elective</th>
<th>NHS Credit Amount</th>
<th>College Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Living</td>
<td>Required for Pathway</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Child Development 1 – Prenatal through 1 year-olds</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Child Development 2 – Ages 1-12</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Education Work Experience</td>
<td>Elective</td>
<td>.5-1.0</td>
<td></td>
</tr>
<tr>
<td>Personal Development- MFMC</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Childcare 1</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Childcare 2</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Child. Development- Parenting</td>
<td>Elective</td>
<td>.5-4.0</td>
<td></td>
</tr>
</tbody>
</table>

### Top 10 Careers

- Superintendents, Principals & Asst. Principals
- Pediatricians & Child Psychologists
- Director of Education
- Academic Deans or Post-Secondary Education
- Speech Pathologists
- Instructional Coordinators
- Librarians & Tech Specialists
- School Teachers
- Special Education Teachers
- School Counselors & Social Workers

### Pathway Contact(s):

Andrea Simpson  503-554-5262  simpsona@newberg.k12.or.us
Jane Eilert  503-554-5260  eilertj@newberg.k12.or.us
Information & Comm. Technology Pathway (in development)

Are you curious about the world around you? Do you enjoy the creative process? Do you want to find answers for society’s most pressing problems? Careers in technology offer high-demand, high-wage job opportunities where you can make a true impact. In this pathway, you will learn how to take complex problems, break them down into simpler steps, then deliver skillful solutions.

<table>
<thead>
<tr>
<th>Class Title</th>
<th>Required or Elective</th>
<th>NHS Credit Amount</th>
<th>College Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exploring Computer Science</td>
<td>Required</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>AP Computer Science Principles</td>
<td>Elective</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>AP Statistics</td>
<td>Core/Elective</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>AP Computer Science A</td>
<td>Elective</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Robotics</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Makerspace</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Mobile App Development</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Indep. Study – Computer Science</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Work Study – Computer Science</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
</tbody>
</table>

Pathway Contact(s):

Mike Blackwell  
503-554-5230  
blackwellm@newberg.k12.or.us

Top 10 Careers

- Software Developer
- Information Security Analyst
- Mobile Application Developer
- Database Administrator
- Cloud Architect
- Computer Forensic Investigator
- Health Information Technology Specialist
- Web Developer
- Information Technology Manager
- Data Modeler
Mechanical & Engineering Pathway

The Mechanical and Engineering Pathway has partnered with PCC and local businesses to offer real-world opportunities on campus at NHS. The pathway starts by introducing Computer Assisted Drawing (CAD) and a hands-on Engineering Processes class in the shop. The drawing and machining of a working aluminum engine will earn the student nine (9) PCC college credits.

Students who excel will be offered a paid internship making steel and aluminum parts on the NHS campus during their Junior and Senior year while earning credit through Tiger Manufacturing.

<table>
<thead>
<tr>
<th>Class Title</th>
<th>Required or Elective</th>
<th>NHS Credit Amount</th>
<th>College Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Assisted Drawing 1</td>
<td>Elective</td>
<td>.5</td>
<td>3 (PCC)</td>
</tr>
<tr>
<td>Engineering Processes 1</td>
<td>Required for Pathway</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Computer Assisted Drawing 2</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Engineering Processes 2</td>
<td>Elective</td>
<td>.5</td>
<td>6 (PCC)</td>
</tr>
<tr>
<td>Tiger Manufacturing</td>
<td>Elective</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Intro to Engineering Design</td>
<td>Elective</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Pathway Contact(s):
TBD

Top 10 Careers
- Aerospace Engineering
- Materials Engineer
- Mechanical Engineer
- Mining Engineer
- Civil Engineer
- Engineering Technician
- Automotive Engineer
- Structural Engineer
- Mechatronics Engineer
- Machinist
Graphic Design (Visual Communication) Pathway

Graphic Design is an introductory course where students learn concepts and techniques that Designers use for a career in visual communications, exploring the historical and cultural underpinnings of graphic design. Students learn how to apply the Elements and Principles of Art to the process of creating solutions to graphic design challenges with an emphasis on Icons and Symbols. Students will learn how to work with Adobe Illustrator.

<table>
<thead>
<tr>
<th>Class Title</th>
<th>Required or Elective</th>
<th>NHS Credit Amount</th>
<th>College Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphic Design 1</td>
<td>Required for Pathway</td>
<td>.5</td>
<td>.5</td>
</tr>
<tr>
<td>Graphic Design 2</td>
<td>Elective</td>
<td>.5</td>
<td>.5</td>
</tr>
<tr>
<td>Photography</td>
<td>Required</td>
<td>.5</td>
<td>.5</td>
</tr>
<tr>
<td>Drawing 1/Painting 1</td>
<td>Required</td>
<td>.5</td>
<td>.5</td>
</tr>
<tr>
<td>Drawing 2</td>
<td>Elective</td>
<td>.5</td>
<td>.5</td>
</tr>
<tr>
<td>Drawing 3</td>
<td>Elective</td>
<td>.5</td>
<td>.5</td>
</tr>
<tr>
<td>Calligraphy</td>
<td>Elective</td>
<td>.5</td>
<td>.5</td>
</tr>
<tr>
<td>Painting 1</td>
<td>Elective</td>
<td>.5</td>
<td>.5</td>
</tr>
<tr>
<td>Painting 2</td>
<td>Elective</td>
<td>.5</td>
<td>.5</td>
</tr>
<tr>
<td>Painting 3</td>
<td>Elective</td>
<td>.5</td>
<td>.5</td>
</tr>
<tr>
<td>AP Studio Art</td>
<td>Elective</td>
<td>.5</td>
<td>.5</td>
</tr>
<tr>
<td>Journalism</td>
<td>Elective</td>
<td>1.0</td>
<td></td>
</tr>
</tbody>
</table>

Pathway Contact(s):
Tyson Lunden 503-554-4425 lundent@newberg.k12.or.us

Top 10 Careers
- Graphic Designer
- Creative Director
- Video Editor
- Film Editor
- Industrial Designer
- Multimedia Artist
- Digital Illustrator
- Sign Designer
- Artist
- Product Designer
Hospitality & Tourism Management/Culinary Pathway

The HTM Pathway is designed to help students be prepared for a career in the Hospitality & Tourism Management/Culinary industry. Since half of all people in Oregon have their first job in this field, the emphasis is to develop and expand employment skills though culinary and business applications that are transferable to any area of employment.

This pathway is a natural complement to Business, Ag, or Horticultural pathways leading to careers in marketing, food science, farm-to-table and sustainability-related careers.

<table>
<thead>
<tr>
<th>Class Title</th>
<th>Required or Elective</th>
<th>NHS Credit Amount</th>
<th>College Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food &amp; Nutrition – Intro to Culinary</td>
<td>Required for Pathway</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Culinary Mgmt 1 – International Foods; Soups, Stocks &amp; Sauces</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Culinary Mgmt 2 – Fruits, Vegetables &amp; Side Dishes</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Culinary Mgmt 3 – Breakfasts, Sandwiches, Salads &amp; Garnishes</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Culinary Mgmt 4 – Meats &amp; Sweets</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Culinary Mgmt 5 – Catering Asst.</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Culinary Mgmt 6 – Independent Study/HTM or Culinary</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Culinary – Work Experience</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Culinary – Independent Study</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
</tbody>
</table>

Top 10 Careers
- Property General Manager
- Regional Chef
- Restaurant Director
- Hotel Manager
- Regional Restaurant Manager
- Travel Manager
- Entertainment Operations Manager
- Food & Beverage Director
- Meeting/Event Manager
- Head of Housekeeping

Pathway Contact(s):
Jane Eilert 503-554-5260 eilertj@newberg.k12.or.us
Performing Arts Pathway

The Performing Arts Pathway focuses on the skills and experiences students need to successfully enter the world of higher education or go directly into the job market in the area of the Performing Arts. This pathway is heavily weighted toward the area of theater but includes skills that would be used in many careers. There is a focus on acting and performing as well as designing and building. Focus topics include: scenic design, costume design, lighting design, theater and stage management, shop skills, building techniques, performance, writing, directing, moviemaking, and other onstage skills.

### Top 10 Careers
- Actor
- Director
- Playwright
- Theater Educator
- Technical Director
- Scenic Designer
- Costume Designer
- Camera Operator
- Theater/Movie Critic
- Dramaturg

<table>
<thead>
<tr>
<th>Class Title</th>
<th>Required or Elective</th>
<th>NHS Credit Amount</th>
<th>College Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro to Theater</td>
<td>Required</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Drama/Acting</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Expressive Movement</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Stagecraft 1</td>
<td>Required</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Stagecraft 2</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Stagecraft 3</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Audio/Visual Production</td>
<td>Elective</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Musical Theater</td>
<td>Elective</td>
<td>.5</td>
<td></td>
</tr>
<tr>
<td>Integrated Design Studio</td>
<td>Elective</td>
<td>1.0</td>
<td></td>
</tr>
</tbody>
</table>

Pathway Contact(s):
Mike McConaughey 503-554-5305 mcconaugheym@newberg.k12.or.us
Co-Curricular Activities

The Newberg School District considers co-curricular activities to be an integral part of the total educational program. Participation in these activities often provides the best opportunity for the development of student citizenship. Therefore, all students should be given the opportunity to participate in co-curricular activities. The co-curricular program, whether a particular sport, activity or a combination of both in our school, is a body of people and procedures that shares common goals. The goals include providing an enjoyable experience and creating an atmosphere where all students can:

- understand the value of participation
- understand the benefits of teamwork feel a sense of belonging
- feel a sense of accomplishment
- learn how to deal with adversity
- learn how to deal with success
- develop proper standards of conduct
- develop desirable citizenship traits
- learn to respect themselves and others
- strengthen personal growth and help others to do the same
- develop healthful habits
- understand the importance of commitment
- develop leadership skills
- learn to give back to their community

Through participation in various co-curricular programs, students can develop into well-rounded individuals. Students are encouraged to participate in a variety of activities. Lessons learned in co-curricular activities increase success for students in school, and outside the school setting. Positive student behavior in the community leads to a more positive image of young people, and can enhance community support for all school programs.

Benefits of Co-curricular Activities

**Activities Support the Academic Mission of Schools.** They are not a diversion but rather an extension of a good educational program. Students who participate in activity programs tend to have higher grade-point averages, better attendance records, lower dropout rates and fewer discipline problems than students generally.

**Activities are Inherently Educational.** Activity programs provide valuable lessons for practical situations – teamwork, sportsmanship, winning and losing, and hard work. Through participation in activity programs, students learn self-discipline, build self-confidence and develop skills to handle competitive situations. These are qualities the public expects schools to produce in students so that they become responsible adults and productive citizens.

**Activities Foster Success in Later Life.** Participation in high school activities is often a predictor of later success – in college, a career and becoming a contributing member of society.
Co-Curricular Athletics & Activities

Academic Requirements
Student athletes must pass at least five classes the semester before their season begins, and must be enrolled in at least five credit bearing classes throughout the sport season to satisfy OSAA rules for eligibility. In addition, students must also meet graduation credit requirements established by the OSAA. Failure to do so will result in immediate ineligibility for the athlete. Newberg School District policy requires that students have no failing grades, and achieve a 2.0+ GPA in the semester before the season begins in order to participate in athletics and/or activities. Students with one F and/or a 1.5+ GPA may qualify for probation one time each school year, allowing them to continue to participate. For details on the requirements for the probation, students should contact the Athletic office.

NCAA
Students who wish to participate in athletics in college should visit the NCAA Clearinghouse website at http://eligibilitycenter.org and register with the Clearinghouse at the end of their junior year. No online/correspondence/distance learning credits are accepted by the NCAA. Review course descriptions for “NCAA APPROVED COURSE”. See Mr. Burke or your coach for more information.

NOTE: Not all NHS Courses meet NCAA standards. Please check with the Athletic Office if you have questions.

<table>
<thead>
<tr>
<th>Fall Athletic Programs (August – November)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BOYS</strong></td>
</tr>
<tr>
<td>Cross County</td>
</tr>
<tr>
<td>Football</td>
</tr>
<tr>
<td>Soccer</td>
</tr>
<tr>
<td>Water Polo</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Winter Athletic Programs (November – February)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BOYS</strong></td>
</tr>
<tr>
<td>Basketball</td>
</tr>
<tr>
<td>Swimming</td>
</tr>
<tr>
<td>Wrestling</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Athletic Programs (March – June)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BOYS</strong></td>
</tr>
<tr>
<td>Baseball</td>
</tr>
<tr>
<td>Golf</td>
</tr>
<tr>
<td>Lacrosse</td>
</tr>
<tr>
<td>Tennis</td>
</tr>
<tr>
<td>Track</td>
</tr>
</tbody>
</table>

Rugby, for both boys and girls, runs from December to May
Co-Curricular Athletics & Activities

Year-Round Activities/Clubs

Art Club NHS
Band
Ceramics
Cheerleading
Choir
Close Up
Creative Writing & Poetry
Dance Team (Tiger Dance Team)
Dressage
FFA (Future Farmers of America)
GSA (Gay Straight Alliance)
International Club
Interact (Service Club Affiliated with Rotary)
Key Club (Service Club Affiliated with Kiwanis)
Marching Band Club
MEChA
Mock Trial
NHS (National Honor Society)
OHSET (Oregon HS Equestrian Team)
Orchestra
Pin Pals (application required)
Pro-Start (Culinary Team)
Robotics
Ski Racing
Thespians

Students who are home schooled may be eligible to participate in co-curricular programs at Newberg High School, providing they meet the necessary requirements. For more information, please contact the athletics and/or activities departments.
The following pages outline our course offerings for 2020-2021. Please read course descriptions carefully (including prerequisites) before completing course requests.
Art

CERAMICS - 1, 2 & 3
NCES: 05159
Grade: 9-12
Semesters: 1
Materials Fee: $25
Prerequisite: Courses must be taken in sequence.

Course Note: Level 3 class may be repeated for credit with instructor’s approval.

Ceramics courses focus on creating three-dimensional works out of clay and ceramic material. Students will create works of art out of clay and will use their hands to create both functional and sculptural ceramic pieces. Ceramics 1 students focus on hand-building techniques. Ceramics 2 students will have an opportunity to learn wheel-throwing basics. Advanced students must be able to research and carry out ideas independently.

DRAWING & PAINTING 1
NCES: 05155
Grade: 9-12
Semesters: 1
Materials Fee: $25

Course Note: This is an entry level course and is a required course for Drawing 2 and Painting 2. It is also a recommended course for many of the classes in Art. This course may NOT be repeated for credit.

This course will focus on drawing and painting. In keeping with this attention on two-dimensional work, students work with several media (including, but not limited to pen-and-ink, pencil, chalk, watercolor, & tempera). This course provides basic drawing and painting skill required for more advanced art courses. Lessons are designed to be suitable for students with any amount of art experience.

CALLIGRAPHY
NCES: 05156
Grade: 9-12
Semesters: 1
Materials Fee: $25
Prerequisite: Drawing & Painting 1 is recommended.

Course Note: This course may NOT be repeated for credit.

This course focuses on Calligraphy. Students will learn basic lettering styles and make books. Students may write their own work in this class or utilize the writing of others to practice their lettering skills.

DRAWING 2 & 3
NCES: 05156
Grade: 9-12
Semesters: 1
Materials Fee: $25
Prerequisite: Drawing & Painting 1/Drawing 2

Course Note: Courses must be taken in sequence. Level 3 class may be repeated for credit.

Drawing courses focus on drawing and painting. Students will deepen their understanding of drawing through hands-on practice in this course. A variety of drawing materials including pencil, charcoal, and ink will be studied.

PAINTING 2 & 3
NCES: 05157
Grade: 9-12
Semesters: 1
Materials Fee: $25
Prerequisite: Drawing & Painting 1/Painting 2

Course Note: Courses must be taken in sequence. Level 3 class may be repeated for credit with approval.

Students will deepen their understanding of painting through hands-on practice in this course, building on skills developed in level one—strong drawing skills recommended. Different historical and cultural art styles will be explored, along with techniques for applying paint to different surfaces. Students typically work with several media (such as watercolor, tempera, oils, acrylics, and so on).

This course challenges students to extend their techniques and experiments with a variety of paint media. Students will create diverse works of art focusing on composition and technique.
Art

**GRAPHIC DESIGN 1 & 2**
NCES: 05162  
Grade: 10-12  
Semesters: 1  
Materials Fee: $20  
Prerequisite: Drawing & Painting 1 is recommended.

Course Note: Courses must be taken in sequence. Level 2 class may be repeated for credit with instructor’s approval.

Graphic Design is an introductory course where students learn concepts and techniques that Designers use for a career in visual communications, exploring the historical and cultural underpinnings of graphic design. Students learn how to apply the Elements and Principles to the process of creating solutions to graphic design challenges with an emphasis on Icons and Symbols. Students will learn how to work with Adobe Illustrator.

Graphic Design II is a continuation of Graphic Design I, building on the foundations learned with an emphasis on logo design and branding. Students will create digital images used for vinyl printing, web publication, and print. Programs used are Adobe Illustrator.

**PHOTOGRAPHY**
NCES: 05167  
Grade: 10-12  
Semesters: 1  
Materials Fee: $20  
Prerequisite: Drawing & Painting 1 is recommended.

Course Note: Digital photography based

Photography courses expose students to the materials, processes, and artistic techniques of taking artistic photographs. This course is an introduction to photography as an artistic medium which allows students the opportunity to incorporate technology and art. Students will have the chance to enhance, manipulate and combine their own photographs using Adobe Photoshop while learning techniques of what makes a successful photograph.

**AP STUDIO ART**
NCES: 05172  
Grade: 11-12  
Semesters: Full Year  
Materials Fee: $25 per semester  
AP Exam Fee: $94  
Prerequisite: Minimum of 3 other art courses & portfolio review.

Course Notes: Students are expected to submit portfolios for AP Studio Art credit and expected to take AP test. May be repeated for credit with instructor’s approval.

This course is designed for students with a serious interest in art, AP Studio Art—General Portfolio courses enable students to refine their skills and create artistic works to be submitted to the College Board for evaluation. Given the nature of the AP evaluation, the courses typically emphasize quality of work, attention to and exploration of a particular visual interest or problem, and breadth of experience in the formal, technical, and expressive aspects of the student’s art, in drawing, color organization, design, and sculpture. Students in AP Studio art have the opportunity to submit one or more portfolios per year in AP Studio Art 2-D Design, AP Studio Art 3-D Design, or AP Studio Art Drawing.

**AUDIO/VISUAL PRODUCTION**
NCES: 11051  
Grade: 10-12  
Semesters: Full Year  
Materials Fee: $25  
Prerequisite: None

Audio/Visual Production focuses on the techniques needed to create quality video programs that can be used to promote, enhance and identify programs at NHS. Steps would include ideation of concept, creation and communication of documentation (storyboard, shot lists, script text, editing parameters), communication with clubs/activities/sports, live video creation, editing live video, adding appropriate text and graphics, and publishing for public use.

Students in this class will learn how to work individually as well as collaboratively. Students will also need to be able to work independently with technical equipment as well as attend outside of school events and programs for videoing purposes.
BUSINESS

**CONSUMER ECONOMICS/PERSONAL FINANCE**
NCES: 19262  
Grade: 10 -12  
Semesters: 1

Course Note: This class does not fulfill an NHS social science requirement; **elective credit will be issued.**

Consumer Economics/Personal Finance courses provide students with an understanding of the concepts and principles involved in managing one’s personal finances. Topics may include savings and investing, credit, insurance, taxes and social security, spending patterns and budget planning, contracts, and consumer protection. These courses may also provide an overview of the American economy.

**BUSINESS COMMUNICATIONS**
NCES: 12009  
Grade: 11 -12  
Semesters: 1

Course Note: Good communication and soft skills are essential in today's workplace. Students will have the opportunity to receive the National Career Readiness Certificate (NCRC) from ACT and will include field trips as well as class speakers to enhance this course.

Business Communications courses help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communicating nonverbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and real world application.

**INTRODUCTION TO BUSINESS**
NCES: 12051  
Grade: 9 -12  
Semesters: 1

This course provides a foundational understanding of the role of business in a global society, American business as a dynamic process, forms of business ownership, management concepts, marketing, production and distribution, and accounting and finance. Along with a brief historical perspective, business terminology and principles will be emphasized. This course will help students to contribute to the improvement of economic citizenship and professional literacy through analysis of the business and economic environment, in which we all live. This course will also utilize Virtual Business-Restaurant, where students make tough business decisions that go into running a successful, profitable restaurant.

**MARKETING - SPORTS & EVENTS MARKETING**
NCES: 12152  
Grade: 9-12  
Semesters: 1

This course will develop critical thinking, decision making and communication skills. This class will utilize Virtual Business - Sports and Entertainment Online, a simulation of a sports and entertainment venue lets students handle promotion, ticket pricing, stadium operations and staffing, sponsors, concessions, concert booking, and more. This course stresses the utilization of fundamental marketing skills.
BUSINESS

RETAIL MARKETING
NCES: 12161
Grade: 11-12
Semesters: 1
Prerequisite: Introduction to Business, and either Intro to Marketing-Comprehensive/Principles OR Sports and Events Marketing

Course Note: Operating the student store. This class may be repeated for credit with instructor’s approval.

Retail Marketing is a hands-on class covering all aspects of running a retail operation through the Newberg High School student store - The Tiger’s Den. This course covers principles and concepts related to the provision of goods or services directly to the consumer, emphasizing store operation, advertisement and display of goods, store security, sales, customer relations and human relations. This course will utilize Virtual Business - Retailing, an on-line simulation where students start with a family grocery/convenience store. As they advance, they manage sporting goods and electronics retailers. Promotion options include traditional media and new options such as email campaigns.

MARKETING MANAGEMENT
NCES: 12166
Grade: 11-12
Semesters: 1
Prerequisite: Intro to Business, Intro to Marketing-Comprehensive/Principles OR Sports and Events Marketing, and Retail Marketing. This class may be repeated for credit with instructor’s approval.

Marketing Management covers purchasing and distribution systems; advertising and sales; and so on but places a particular emphasis on business management and entrepreneurship, providing exposure to common techniques and problems of management. Students learn hands on through the operation of the Student Store. This course will also utilize Virtual Business - Management Online, an on-line simulation where students take over the role of general manager at a bicycle or jeans factory and make management decisions to operate so as to maximize profits. As they grow in business knowledge, they can grow into manufacturing giants.
ELL: ENGLISH LANGUAGE LEARNERS

ENGLISH LANGUAGE DEVELOPMENT 1, 2 & 3
NCES: 01008
Grade: 9-12
Semesters: Full Year
Prerequisite: Instructor/Counselor placement only

English Language Development (ELD) courses are designed for the rapid mastery of the English language, focusing on reading, writing, speaking, and listening skills. Language Arts/ ELL course is required for all English Language Learners new to the English Language; 18 months or fewer in the country. Early level ELD 1 course is required for all English language learners at beginning to early intermediate language proficiency. It has been organized to develop skills in listening, speaking, reading, and writing; all elements of effective communication. Primary focus is on phonetics, vocabulary, and basic sentence format for functional English communication. Intermediate level ELD 2 course is required for all English language learners with intermediate to early advanced language proficiency. It has been organized to develop skills in listening, speaking, reading, and writing; all elements of effective communication. We focus on developing academic vocabulary skills, reading fluency, and on structured paragraph writing. Advanced level ELD 3 is required for students who have not yet demonstrated English language proficiency, but have a strong vocabulary. This course addresses close reading skills, academic language development in discourse and in well-developed paragraph and essay writing.

LANGUAGE ARTS /ELL 1 & 2
NCES: 01009
Grade: 9-12
Semesters: Full Year
Prerequisite: Instructor/Counselor placement only

Course Note: This class is designed for students new to the USA.

The Language Arts Laboratory course provides instruction in close-reading of grade-appropriate literature and effective writing skills. Students develop communication skills, integrating reading, writing, speaking, and listening, while placing great emphasis on the text. Course content depends upon students’ abilities and includes vocabulary building, improving spelling and grammar, developing writing and composition skills, close-reading skills, and improving listening and comprehension abilities. Content follows mainstream English courses. Students produce 1+ district work samples each semester.
FAMILY & CONSUMER SCIENCE

FAMILY LIVING/INTERPERSONAL RELATIONSHIPS
NCES: 19259
Grade: 9-12
Semesters: 1
Course Note: This class is one of three classes taught in the area of Early Childhood Education.

The Family Living Course emphasizes building and maintaining healthy interpersonal relationships among family members and other members of society. The course emphasizes (but is not limited to) topics such as the need for healthy families in society, personal responsibility and responsibility as a parent-wage earner. The course covers family patterns, trends, and changes, and how culture, economics, and technology can affect families. Additionally, the course covers social/dating practices, human sexuality, marriage preparation, parenthood, and the function of the family unit through life stages.

CHILD DEVELOPMENT 1 & 2
NCES: 19052
Grade: 9-12
Semesters: 1
Course Note: Child Development 1 (conception through year one) will be offered during the 2020-2021 school year and Child Development 2 (ages 1-12) will be offered during the 2021-2022 school year. No sequence requirements.

Child Development 1
Child Development classes provide students with knowledge about the physical, mental, emotional, and social growth and development of children from conception to preschool age, emphasizing the application of this knowledge in child care settings. These courses typically include related topics such as the appropriate care of infants, toddlers, young children and the study of human reproduction.

Child Development 2
Child Development 2 provides knowledge on development from 1 to 12 years of age. It will be offered in the 2021-2022 school year.

CHILD CARE 1 & 2
NCES: 19051
Grade: 10-12
Semesters: 1
Prerequisite: Two of the following classes: FAMILY LIVING, CHILD DEVELOPMENT 1 or 2; or instructor approval. Courses must be taken in sequence.
Course Note: Level 2 class may be repeated for credit with instructor’s approval.

Child Care courses provide students with knowledge about the physical, mental, emotional, and social growth and development of children from birth through childhood. Main topics include the fundamentals of working with infants, toddlers, and older children; providing healthy environments; evaluating child care settings; and the practices, regulations, and opportunities in the child care industry. Often, Child Care courses provide students with practical experience in a child care center. Advanced topics may include various learning theories; development of activities; operation of a child care center; recognition of childhood diseases, abuse, and neglect; and first aid/emergency training.

CLOTHING/SEWING/DESIGN & FASHION
NCES: 19256
Grade: 9-12
Semesters: 1
Course Note: This class may be repeated for credit.

Clothing/Sewing courses introduce students to and expand their knowledge of various aspects of wearing apparel, sewing, and fashion. This course typically includes wardrobe planning; selection, care, and repair of various materials; and construction of one or more garments. It also includes related topics, such as product design, fashion history, the social and psychological aspects of clothing, careers in the design industry, and craft sewing.
FAMILY & CONSUMER SCIENCE

FOOD & NUTRITION – INTRO TO CULINARY
NCES: 19252
Grade: 9-12
Semesters: 1
Materials Fee: $25

Introductory Food and Nutrition is a one-semester class. This courses provide students with an understanding of food’s role in society, instruction in how to plan and prepare meals, experience in the proper use of equipment and utensils, knowledge of measurements, recipe conversion and pricing and a foundation of the nutritional needs and requirements for healthy living. This class places a heavier emphasis on learning safety and sanitation and the methods of food preparation as the prerequisite for advanced culinary classes. This course presents career opportunities in the food service industry, and will emphasize industry standards for food preparation.

CULINARY MANAGEMENT 1, 2, 5, 6
NCES: 16052
Grade: 10-12
Semesters: 1
Materials Fee: $25
Prerequisite: Food & Nutrition with C or above, or instructor approval.

Course Note: Class sections 1 & 2 will be offered in 2021-2022. Class sections 3 & 4 will be offered in 2020-2021. This program requires four semesters for certification. No sequence requirements (course numbers indicate topics, not sequence).

Culinary Management courses provide students with knowledge and skills related to commercial and institutional food service establishments. Course topics range widely, but usually include sanitation and safety procedures, nutrition and dietary guidelines, food preparation (and quantity food production), and meal planning and presentation. Culinary Management courses will include “back-of-the-house” and “front-of-the-house” experiences, and will cover reservation systems, customer service, and restaurant/business management. Food preparation units vary each semester and over the four semesters include international foods; soups, stocks and sauces; fruits and vegetables; side dishes; meats; breakfast foods; salads; sandwiches; garnishing; and desserts.

Culinary Management 5 – Catering Assistant
Culinary Management 6 – Indep. Study – Culinary or Hospitality & Tourism Topics

PERSONAL DEVELOPMENT/MFMC/STARS
NCES: 22209
Grade: 11-12
Semesters: 1
Prerequisite: Instructor approval

Course Note: This class may be repeated for credit with instructor’s approval.

Similar to Family Living courses, but more focused on the individual, Personal Development courses emphasize strengthening self-esteem, recognizing and resisting negative peer pressure, and developing coping skills for dealing with changes within one’s self and within others. This course may also have a substance-abuse prevention component. The culminating activity is that the students will be trained Teen Leaders for My Future, My Choice program, leading seventh graders both at Mountain View and Chehalem Valley Middle Schools to encourage positive life choices.

CHILD DEVELOPMENT/PARENTING
NCES: 19255
Grade: 9-12
Semesters: Full Year
Prerequisite: Counselor placement only.

Course Note: This is a recommended course for all student parents or parents to be. This class may be repeated for credit with instructor’s approval.

Child Development/Parenting courses provide students with knowledge about the physical, mental, emotional, and social growth and development of children from conception to pre-school age. In addition, these courses help students discover how parents should respond to the various stages of childhood. Course content typically includes topics such as prenatal and birth processes; responsibilities and difficulties of parenthood; fundamentals of children’s emotional and physical development; and the appropriate care of infants, toddlers, and young children.
FAMILY & CONSUMER SCIENCE/HEALTH

FAMILY & CONSUMER SCIENCE

EDUCATION - WORKPLACE EXPERIENCE (CADET TEACHING)
NCES: 22151
Grade: 11-12
Semesters: 1
Prerequisite: Counselor/School to Business Coordinator placement only; must have own transportation.

Course Note: Pass/No Pass; This class may be repeated for credit with instructor’s approval.

Education—Workplace Experience courses provide students with work experience in fields related to education. Goals are set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.

PSYCHOLOGY 1 (ALSO LISTED IN SOCIAL SCIENCE)
NCES: 04254 NCAA APPROVED COURSE
Grade: 11-12
Semesters: 1
Prerequisite: None

Course Note: This class does not fulfill an NHS social science requirement; elective credit will be issued.

This college prep course is designed to engage students in a look at individual behavior and why an individual thinks, feels, and reacts to certain stimuli. Psychology units that are covered, but not limited to, are: a history of psychology, research methods and experiments, the brain, sensation and perception, emotion, and learning.

HEALTH

HEALTH EDUCATION 1 & 2
NCES: 08051
Grade: 9-12
Semesters: 1
Prerequisite: Courses to be taken in sequence.

Course Note: Curriculum for HIV, AIDS, HBV and HCV taught according to district policy IGAEA Curriculum for Drug, Alcohol and Tobacco Prevention taught according to district policy IGAEB

Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues.

Health 1- Topics include families, relationships, human sexuality, alcohol & tobacco, addiction and recovery, health/medical career options.

Health 2- Nutrition, stress management, mental health, violence prevention, first aid/CPR

HEALTH & FITNESS/NUTRITION
NCES: 08052
Grade: 11-12
Semesters: 1
Prerequisite: Health Education 1 & 2

Course Note: This class does not fulfill an NHS health requirement; elective credit will be issued.

Health and Fitness courses combine the topics of Health Education courses (nutrition, stress management, substance abuse prevention, disease prevention, first aid, and so on) with an active fitness component (typically including aerobic activity and fitness circuits) with the intention of conveying the importance of lifelong wellness habits. Health and Fitness courses combine the topics of Health and Nutrition including but not limited to (understanding of nutrition science, modern issues in nutrition, nutrition concepts and controversies, disease prevention, along with the reading of Michael Pollan’s “Omnivore’s Dilemma”, “Food Rules”) with the intention of conveying the importance of lifelong wellness habits.
INDUSTRY & ENGINEERING

INTRODUCTION TO ENGINEERING DESIGN
NCES: 21001
Grade: 9-11
Semesters: Full Year
Materials Fee: $15
Prerequisite: Algebra 1 is strongly suggested (student may be concurrently enrolled in Algebra 1)

Students engage in pre-engineering activities integrating technology-oriented applications of mathematics and science. Course topics may include computer-aided design, material sciences, technology processes, and career opportunities. Students learn and apply the engineering design process through hand-on projects featuring math, science, and engineering standards. Students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world’s top companies.

COMPUTER ASSISTED DRAWING (CAD) 1
NCES: 21107
Grade: 9-12
Semesters: 1
Prerequisite: None

Course Note: Cad Design & Software 2 may be repeated for credit. Up to 3 PCC Dual Credits are available for CAD 1

Students will use the exact same CAD software as real-world engineers and artists use to create photo realistic Art. The computer graphics that students and engineers create replaces traditional hand drafting. CAD is everywhere in the 21st century and it is used to create everything from TV commercials to NASA rockets. Local home-builders use CAD, along with interior decorators, mechanical engineers, civil engineers, surveyors, and people who make artificial limbs for the medical field. In addition, famous brand sports shoes are designed with CAD (basically every items that is sold in stores) as well as all cars and trucks. Also, CAD is used to create Disney and Pixar movies and all movies that use a green screen use Computer Aided Design for the special effects.

COMPUTER ASSISTED DRAWING (CAD) 2
NCES: 21107
Grade: 10-12
Semesters: 1
Prerequisite: Computer Assisted Drawing 1

The week or longer projects will enable students to develop a skill set that revolves around the application of graphics used for conveying information related to entertainment, design, and manufacturing.

TIGER MANUFACTURING
NCES: 13002
Grade: 11-12
Semesters: Full Year
Prerequisite: Instructor approval; Application required.

Tiger Manufacturing is a student-run enterprise that produces machined metal parts to customers’ specifications. The enterprise is supervised by a licensed CTE teacher and community volunteers skilled in machining. Students will learn applied math, metric/imperial conversion and how to read blueprints, estimate costs, price products, produce parts, manage inventory, interact with customers, perform quality control, etc.

ENGINEERING PROCESSES 1
NCES: 21003
Grade: 9-12
Semesters: 1
Prerequisite: Beginning Level Class

This course is a must for those students seeking careers in the following fields: aerospace engineer, automotive engineer, construction engineer, electrical-mechanical engineer, industrial engineer, mechanical engineer, materials engineer, mining engineer, naval engineer, production engineer, systems engineer, helicopter mechanic, and machinist. Course topics include: Computer Assisted Drafting (CAD), Computer Assisted Manufacturing (CAM), electronics, precision measurement, machining part to plus or minus .003 inch and blueprint reading.
INDUSTRY & ENGINEERING

ENGINEERING PROCESSES 2
NCES: 21010
Grade: 10-12
Semesters: 1
Prerequisite: Engineering Processes 1

Course Note: This class may be repeated for credit with instructor’s approval. Up to 6 PCC Dual Credits are available.

The main focus of this class will be building a running engine from scratch. Course topics include: Computer Assisted Drafting (CAD), Computer Assisted Manufacturing (CAM), electronics, precision measurement, machining part to plus or minus .003 inch and blueprint reading.

ENGINEERING DESIGN & DEVELOPMENT
NCES: 21007
Grade: 11-12
Semesters: Full Year
Prerequisite: Principles of Engineering, Computer Science A, or two years of foundational coursework in the same CTE pathway.

Engineering Design and Development courses provide students with the opportunity to apply engineering research principles as they design and construct a solution to an engineering problem. Students typically develop and test solutions using computer simulations or models but eventually create a working prototype as part of the design solution.

WOODS 1 & 2
NCES: 17006
Grade: 9-12
Semesters: 1 each
Materials Fee: $20
Prerequisite: None for Woods 1. Prerequisite for Woods 2 is Woods 1.

In this introductory series of courses, students will learn the basics of woodworking tools, materials, safety protocols and career opportunities. Students will be guided through a series of hands-on projects increasing in difficulty and scope as the semester progresses. Woodshop 2 will pick up with more advanced woodworking methods/techniques and student-led inquiries and projects. The hope is that students will be better prepared to take more advanced courses in the woodshop like Geometry in Construction, Furniture Design and the Integrated Design Studio.

FURNITURE DESIGN
NCES: 05193
Grade: 10-12
Semesters: 1
Materials Fee: $20
Prerequisite: None

This studio will bring the design process to life as students develop and construct their own custom piece of furniture. A primer for careers in Interior Design, Architecture and Industrial Design, students will research case studies, critique aesthetic, functional and ergonomic aspects of furniture, build models using the laser engraver, learn to safely use the wood shop, and completely fabricate a custom piece of furniture of their own design.

INTEGRATED DESIGN STUDIO
NCES: 17998
Grades: 11-12
Semesters: Full Year
Materials Fee: $20

Course Note: This class is a 2 period class in which students will earn credits in English and CTE/elective.

Each year of the Integrated Design Studio will center on student-led investigations of environmental and social challenges facing the community of Newberg. We will explore these challenges using a design thinking process rooted in empathy and action—the outcome of which will yield a built structure. Past examples include student-designed and student-built tiny homes for people experiencing homelessness in our community.

WELDING 1, 2 & 3
NCES: 13208
Grade: 9-12
Semesters: 1
Materials Fee: $20
Prerequisite: Courses must be taken in sequence. Welding 3 requires instructor approval.

Course Note: Welding 3 students must receive instructor approval prior to enrolling. Welding 3 may be repeated for credit with instructor approval.

In these courses students gain knowledge and skills in particular aspects of welding. Examples include the following types of welding: gas metal, gas tungsten, and shielded metal and flux core arc welding.
INDUSTRY & ENGINEERING

EXPLORING COMPUTER SCIENCE (ECS): Computer Science for All
NCES: 10160
Grade: 9-10
Semesters: Full Year
Prerequisite: None
Lab Fee: $10

Course Note: Class can be taken as a semester class (part A or B). Does not have to be taken in sequential order.

This class is for any student who wants to explore STEM topics; no computer skills required. Exploring Computer Science is supported by the Broadening Participation in Computing division of the National Science Foundation (Into the Loop) and is focused on diversifying classrooms and engaging historically underrepresented students in computer science. There will be a focus on how Computer science is broad, including concepts such as how computing systems work, how data is stored, processed and analyzed, what problems can and cannot be solved using computing devices, how to develop processes to solve problems computationally, and how computing impacts society (It’s not just about programming).

AP COMPUTER SCIENCE PRINCIPLES: Games, Apps and Web Design
NCES: 10152
Grade: 10-12
Semesters: Full Year
AP Exam Fee: $94
Prerequisite: Algebra 1 recommended but not required
Lab Fee: $10/Willamette Promise $30

Course Note: Students are expected to take AP test. 4 WOU credits available.

This is a beginning level AP Course. Students design games, Android/iOS apps, and web sites using Python, Javascript, and PHP as primary tools and incorporating multiple platforms and languages for computation. This course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

AP COMPUTER SCIENCE A: Android Applications and Java
NCES:10157
Grade: 10-12
Semesters: Full Year
AP Exam Fee: $94
Prerequisite: Algebra 1 is recommended
Lab Fee: $10

Course Note: Computer Science A will be the year 2 course in the Computer Science CTE pathway. Students are expected to take AP test.

Following the College Board’s suggested curriculum designed to mirror college-level computer science courses, AP Computer Science A courses provide students with the logical, mathematical, and problem-solving skills needed to design structured, well-documented computer programs that provide solutions to real-world problems. These courses cover such topics as programming methodology, features, and procedures; algorithms; data structures; computer systems; and programmer responsibilities.

MAKERSPACE
NCES: 21007
Grade: 9-12
Semesters: 1
Prerequisite: None

This class will serve as an introduction to hands-on making and our CTE course offerings, as well as serving as a hub to extend class projects and all CTE elective courses. Students will be presented with a problem and then design a solution to put into action. After creating a solution, students will take the time to reflect on the end results. Student course work includes learning the basics of Computer-Aided Design and 3D printing in different materials. For a culminating experience in the course, students will partner with an outside organization to help design a tangible solution to a real-world problem.
INDUSTRY & ENGINEERING

ROBOTICS
NCES: 21009
Grade: 10-12
Semesters: 1
Prerequisite: Successful completion of Algebra 1 (C or higher)

Robotics allows students to develop skills and knowledge so that they can design, build, and test robotic devices. Through hands-on activities found within the VEX robotics platform fundamental aspects of robotics programming, computer coding, construction, and application are incorporated. Students will participate in sport-like game competitions against their peers in class and challenging other schools through the Vex Robotics Competition.

MOBILE APP DEVELOPMENT
NCES: 10206
Grade: 10-12
Semesters: 1
Prerequisite: Exploring Computer Science or AP Computer Science Principles

In this class, students will learn to build their own mobile applications (mobile apps). These mobile apps will be created using React Native, a popular framework developed by Facebook. Since React Native is a JavaScript library, previous experience using JavaScript is required. As an online blended class, students will design, build, and iterate applications that can run on smartphones.
ENGLISH/LANGUAGE ARTS 1 (9TH GRADE)
NCES: 01001 NCAA APPROVED COURSE
Grade: 9
Semesters: Full Year

English/Language Arts 1 (9th grade) courses build upon students’ prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing, and usually include the four aspects of language use: reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections.

ENGLISH/LANGUAGE ARTS 2 (10TH GRADE)
NCES: 01002 NCAA APPROVED COURSE
Grade: 10
Semesters: Full Year

English/Language Arts 2 (10th grade) courses usually offer a balanced focus on composition and literature. Typically, students learn about the purpose and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students will improve their reading rate and comprehension, as well as develop skills to determine author intent and theme, including identification & analysis of various literary techniques.

ENGLISH/LANGUAGE ARTS 2/ACCELERATED (10TH GRADE)
NCES: 01002 NCAA APPROVED COURSE
Grade: 10
Semesters: Full Year

Course Note: This is a more advanced course of English/Language Arts 2 with reading and writing of increased sophistication and complexity.

ENGLISH/LANGUAGE ARTS 3 (11TH GRADE)
NCES: 01003 NCAA APPROVED COURSE
Grade: 11
Semesters: Full Year

English/Language Arts 3 (11th grade) courses continue to develop students’ writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.

ENGLISH/LANGUAGE ARTS 4 (12TH GRADE)
NCES: 01004 NCAA APPROVED COURSE
Grade: 12
Semesters: Full Year

Throughout the year, students will read a wide variety of literature, as well as investigate the authors, the history, and the cultures that shaped each work. The goal of this course is threefold: to expand your reading skills (improve reading speed, increase comprehension, and enhance vocabulary), improve your writing skills (grammar, clarity, and composing and editing essays), and hone your public speaking skills (formal presentations and discussions), all of which will help prepare you to succeed in your future college or career goals. Students will be reading a broad variety of literature, plays, novels, and poetry with the earnest hope that these stories will not only contribute to the class goals but will also foster a joy of reading. Extended application may be supported.

ENGLISH/LANGUAGE ARTS 4 – WRITING 121
NCES: 01103 NCAA APPROVED COURSE
Grade: 12
Semesters: Full Year
Fee: Willamette Promise $30

Course Note: 4 WOU credits available.

This course focuses on growth in and mastery of the reading, writing and speaking skills necessary for lifelong confidence in any communication situation. The Writing 121 curriculum focuses on rhetorical reading, thinking and writing as means of inquiry; emphasis on rhetorical concepts, collaborative writing processes, research and documentation skills as well as attention to the constraints of audience, purpose, genre, and discourse community. Students will build a portfolio of representative writing work as part of the Writing 121 process. Support for the extended application will be provided in class.
LANGUAGE ARTS

AP ENGLISH LANGUAGE & COMPOSITION
NCES: 01005 NCAA APPROVED COURSE
Grade: 11-12
Semesters: Full Year
AP Exam Fee: $94

Course Note: College level coursework; summer reading assignments TBA; Students are expected to take AP test. Approved advanced course for Honors Diploma.

Following the College Board’s suggested curriculum designed to parallel college-level English courses, AP English Language and Composition courses expose students to prose written in a variety of periods, disciplines, and rhetorical contexts. These courses emphasize the interaction of authorial purpose, intended audience, and the subject at hand. Students learn to develop stylistic flexibility as they write compositions covering a variety of subjects for various purposes. Texts covered in this course are primarily non-fiction.

AP ENGLISH LITERATURE & COMPOSITION
NCES: 01006 NCAA APPROVED COURSE
Grade: 11-12
Semesters: Full Year
AP Exam Fee: $94

Course Note: College level coursework; summer reading assignments TBA; Students are expected to take AP test. Approved advanced course for Honors Diploma.

Following the College Board’s suggested curriculum designed to parallel college-level English courses, AP English Literature and Composition courses enable students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own (including literary analysis, exposition, argument, narrative, and creative writing).

LITERATURE OF AN AUTHOR/SHAKESPEARE 1 & 2
NCES: 01060 NCAA APPROVED COURSE
Grade: 11-12
Semesters: Full Year

Course Note: College level coursework; summer reading assignments TBA. Approved advanced course for Honors Diploma.

The Literature of an Author 1 & 2 classes are largely project-based and require students to do several presentations, participate effectively in discussions, collaborate well with peers, think creatively to solve authentic problems, and examine dramatic works through a theatre-oriented lens. Students will also be expected to develop their critical reading skills and do reflective, analytical, and creative writing. Class time will be split between work on the spring Shakespeare play (both classes together) and study of Shakespeare’s works in separate classes. Both levels are honors courses and are taught at a rigor appropriate for that classification. Summer homework is required.

LANGUAGE ARTS LABORATORY/ (M) LA LAB
NCES: 01009
Grade: 9-12 Semesters: Full Year
Prerequisite: Case Manager/Counselor placement only

Language Arts Laboratory courses provide instruction in basic language skills, integrating reading, writing, speaking, and listening, while placing emphasis on the progress of individual students. Course content depends upon students’ abilities and may include vocabulary building, improving spelling and grammar, developing writing and composition skills, reading silently or aloud, and improving listening and comprehension abilities.

JOURNALISM/YEARBOOK
NCES: 11101
Grade: 10-12
Semesters: Full Year
Prerequisite: Instructor consent

Course Note: Students will be expected to attend school events if their assignment requires them to do so. This class may be repeated for credit with instructor’s approval. This class does not fulfill an NHS language arts requirement; elective credit will be issued.

Publication Production courses provide students with the knowledge and skills necessary to produce the school yearbook. Students either gain experience in several components (writing, editing, layout, production, and so on) or may focus on a single aspect while producing the publication.
LANGUAGEx ARTS

AUDIO/VISUAL PRODUCTION
NCES: 11051
Grade: 10-12
Semesters: 2
Prerequisite: None
Course Fee: $25

Audio/Visual Production focuses on the techniques needed to create quality video programs that can be used to promote, enhance and identify programs at NHS. Steps would include ideation of concept, creation and communication of documentation (storyboard, shot lists, script text, editing parameters), communication with clubs/activities/sports, live video creation, editing live video, adding appropriate text and graphics, and publishing for public use. Students are also responsible for a research project and presentation on a video/audio related topic. Other topics may include Foley sound and Green Screen work.

Standards for this course would meet requirements for English credit.

TUTORIAL/ LA ESSENTIAL SKILLS 11/12
NCES: 22005
Grade: 11-12
Semesters: 1
Prerequisite: Instructor/Counselor placement only

Course Note: This class may be repeated for credit with instructor’s approval. This class does not fulfill an NHS language arts requirement; elective credit of either pass or fail will be issued.

Language Arts Lab provides instruction in basic language skills, integrating reading and writing while placing emphasis on the progress of individuals in order to meet essential skills in reading and writing. Course content depends upon students’ abilities and may include vocabulary building, improving spelling and grammar while developing writing and composition skills.
Informal Mathematics courses emphasize the teaching of mathematics as problem solving, communication, and reasoning, and highlight the connections among mathematical topics and between mathematics and other disciplines. These courses approach the teaching of general math, pre-algebra, and pre-geometry topics by applying numbers, and algebraic and geometric concepts and relationships to real world problems.

**GENERAL MATH**
NCES: 02002
Grade: 9
Semesters: Full Year
Prerequisite: Instructor/Counselor placement only

Course Note: This class does not fulfill an NHS math requirement; elective credit will be issued.

General Math courses reinforce and expand students' foundational math skills, such as arithmetic operations using integers, area, perimeter, and volume of geometric figures, angle relationships, the Pythagorean theorem, the rectangular coordinate system, ratios, percentages and proportion, simple probability, solving and graphing equations and inequalities.

**ALGEBRA 1**
NCES: 02052 NCAA APPROVED COURSE
Grade: 9-12
Semesters: Full Year

The objective of this course is to build upon, process, and apply fundamental skills of mathematics as aligned to the Oregon Common Core State Mathematics Standards: Structure in Expressions, Create Equations, Linear Functions, Inequalities, Quadratic Functions, Probability and Statistics. Students will make connections between algebraic relationships through investigation, discovery, direct instruction, and technology.

**GEOMETRY**
NCES: 02072 NCAA APPROVED COURSE
Grade: 9-12
Semesters: Full Year
Prerequisite: Successful completion of 1.0 credit in Algebra 1.

The objective of this course is to build upon, process, and apply fundamental skills of mathematics as aligned to the Oregon Common Core State Mathematics Standards: Congruence, Similarity, Right Triangles, Trigonometry, Circles, Geometric Properties with Equations, Measurement & Dimensions, and Mathematical Practices. In addition there will be a strong component of Algebraic problem/equation solving. Students will make connections between geometric relationships through investigation, discovery, direct instruction, and technology.

**GEOMETRY IN CONSTRUCTION**
NCES: 02071
Grade: 10-11
Semesters: Full Year
Materials Fee: $20
Prerequisite: Algebra 1

This integrated geometry & construction course is taught in the context of construction. The concepts within the course are organized to complement the skills and the knowledge needed in the building process starting with foundational concepts. The students in this course will have math days as well as build days. On the build days, the students will be working together to build a tiny house, shed or assist with a Habitat for Humanity house. This course will provide students the opportunity to immediately apply what they are learning in the classroom to what they are doing on the build site. Students will receive two credits for this year-long course; one elective credit, one math credit.

**INTEGRATED MATH**
NCES: 02061
Grade: 11-12
Semesters: Full Year
Prerequisite: A minimum of 1.5 credits earned in Algebra 1 and Geometry

This Integrated Math courses emphasizes problem solving, communication, and reasoning, and making connections between mathematics and other disciplines. This class applies Algebraic, Geometric, and Statistical knowledge and skills to real world business and personal finance situations. This class is for students that need additional support to prepare for Algebra 2.
MATHEMATICS

ALGEBRA 2
NCES: 02056 NCAA APPROVED COURSE
Grade: 9-12
Semesters: Full Year
Prerequisite: At least 1.5 credits earned in Algebra 1 and Geometry with a C or better in each semester, or successful completion of Integrated Math

Algebra 2 is a college preparatory course. The objective of this course is to build upon, process, and apply fundamental skills of mathematics as aligned to the Oregon Common Core State Mathematics Standards. Students will be able to demonstrate knowledge and skills of the Common Core State Standards for Algebra 2 which are: Linear, Quadratic, Polynomial, Radical, Advanced (exponential, logarithmic, rational), and Trigonometric relations and functions as well as the student of Discrete Mathematics (sequences and series, statistics and probability) and Mathematical Practices.

TRIGONOMETRY
NCES: 02105 NCAA APPROVED COURSE
Grade: 11-12
Semesters: Full Year
Prerequisite: Algebra 2 and Instructor signature/ approval
Course Note: Placement by teacher only.

Covering topics of both Trigonometry, these courses prepare students for eventual work in calculus. Topics include the study of right trigonometric and circular functions, inverses, and graphs; trigonometric identities and equations; solutions of right and oblique triangles; complex numbers; numerical tables; polynomial, logarithmic, exponential, and rational functions and their graphs; vectors; set theory; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.

PRE-CALCULUS
NCES: 02110 NCAA APPROVED COURSE
Grade: 10-12
Semesters: Full Year
Prerequisite: Algebra 2 with an A or B in each semester; Trigonometry or instructor consent; PCC placement test score for MTH111.

Course Note: Approved advanced course for Honors Diploma. Up to 10 PCC Dual Credits are available.

Semester 1: Explores relations and functions graphically, numerically, symbolically and verbally. Examines exponential, logarithmic, polynomial, and rational functions. Investigates applications from a variety of perspectives.

Semester 2: Investigates trigonometric functions, equations and identities. Examines right and oblique triangles, vectors, polar coordinates, parametric equations and complex numbers. Explores topics graphically, numerically, symbolically, and verbally.

AP STATISTICS
NCES: 02203 NCAA APPROVED COURSE
Semesters: Full Year
Grade: 11-12
Prerequisite: Algebra 2
Materials Fee: $10 and Graphing Calculator TI-83 or TI-84 required
AP Exam Fee: $94

Course Note: Students are expected to take AP test. Approved advanced course for Honors Diploma. Up to 5 PCC Dual Credits are available.

Following the College Board’s suggested curriculum designed to parallel college-level statistics courses, AP Statistics courses introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference.
MATHEMATICS

AP CALCULUS AB
NCES: 02124 NCAA APPROVED COURSE
Grade: 9-12
Semesters: Full Year
AP Exam Fee: $94

Class Note: **Approved advanced course for Honors Diploma.** Students are expected to take AP test. **Up to 9 PCC Dual Credits are available**

Following the College Board’s suggested curriculum designed to parallel college-level calculus course, the AP Calculus AB courses include the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of Pre-Calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and math analysis). In AP Calculus AB, students will learn to understand and model the mathematics of change, as it relates to instantaneous rates of change and areas under curves. The two central concepts that comprise this course are the derivative and the integral. Students will learn various techniques for constructing both. The course will explore a vast array of applications, using a wide variety of technological tools for discovery where critical thinking skills are both developed and challenged. Standards and outcomes that will be investigated: Reasoning with definitions and theorems, connecting concepts, implementing algebraic/computational processes, connecting multiple representations, building notational fluency, communicating.

TUTORIAL/MATH ESSENTIAL SKILLS
NCES: 22005
Grade: 9-12
Semesters: 1
Prerequisite: Instructor/Counselor placement only

Course Note: This class does not fulfill an NHS math requirement; **elective credit of either Pass or Fail will be issued.** The focus of this class is to provide additional support and opportunities for students to meet their Math Essential Skills requirement, by passing work samples.

Essential Skills Math Lab provides instruction in basic math fundamentals, while placing great emphasis on the progress of individual students. Course content will include the three fundamental math areas that are covered in the Work Samples: Algebra, Geometry & Statistics. The focus of this class is to provide additional support and opportunities for students to meet their Math Essential Skills requirements, by passing work samples.
NATURAL RESOURCE SCIENCES

AGRICULTURAL LEADERSHIP
NCES: 18203
Grade: 9-12
Seminesters: 1

Course Note: This course is focused towards students interested in FFA.

Agricultural Leadership courses help students develop leadership skills with a focus on opportunities in the food, fiber, and natural resources industries. Topics may include but are not limited to human relationships and effective communication, decision-making and problem-solving, leadership qualities and styles, and ensuring successful completion of group activities.

AGRICULTURE AND NATURAL RESOURCES
NCES: 18003
Grade: 10-12
Seminesters: Full Year

This is a hands-on project-based learning environment in which students work on real world local environmental issues. There are 4 units of study in this class: Aquatic Ecology, Forest Ecology, Soil and Land use, and Wildlife Ecology. Students use Professional standard tools of measurement - along with standard Survey/Data collection forms - to determine the quality of the environment.

Students look at local environmental issues and determine what baseline data needs to be collected with what survey methods. Students then collect and analyze data and determine a plan of action to address the particular issue.

GENERAL HORTICULTURE
NCES: 18052
Grade: 9-12
Seminesters: 1

Course Note: This course satisfies .5 NHS science credit. Up to 4 PCC Dual Credits are available

General Horticulture courses expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, and vegetables. In doing so, they cover a wide variety of topics, including greenhouse and nursery operations, soils and media mixtures, fruit and vegetable production, interior and exterior plantscaping, irrigation systems, weed and pest control.

ORNAMENTAL HORTICULTURE
NCES: 18053
Grade: 9-12
Seminesters: 1
Prerequisite: General Horticulture

Course Note: This course satisfies .5 NHS science credit. This class may be repeated for elective credit with instructor’s approval. Up to 3 PCC Dual Credits are available

Similar to General Horticulture, Ornamental Horticulture courses provide information regarding the care and propagation of plants, flowers, trees, and shrubs, but place a special emphasis on those used for decorative and aesthetic purposes. Because of this particular emphasis, Ornamental Horticulture courses usually concentrate on nurseries and learning multiple techniques of grafting of woody plants.

INTRO TO AGRICULTURE SCIENCE AND TECHNOLOGY
NCES: 18001
Grade: 9-12
Seminesters: 1

Course Note: This class does not fulfill an NHS science requirement; elective credit will be issued.

Introduction to Agriculture courses survey a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture and livestock career opportunities and to those in related fields (such as natural resources). These courses serve to introduce students to the agriculture field, providing opportunities to identify an area for continued study. They often focus on developing communication skills, business principles, and leadership skills.

EQUINE SCIENCE
NCES: 18104
Grade: 10-12
Seminesters: 1
Prerequisite: Biology; Agriculture & Natural Resources

Course Note: This class does not fulfill an NHS science requirement; elective credit will be issued.

Equine Science courses focus on the care and management of horses. Animal nutrition, health, behavior, reproduction and breeding, anatomy and physiology, facilities, handling and training, and grooming are typical areas of study.
OTHER PROGRAMS

CAREER EXPLORATION/INTERNSHIPS
NCES: 22151
Grade: 11-12
Semesters: 1, Counselor/Career Center Coordinator placement only. May be repeated for credit.

Course Note: Pass/No Pass; Application Process, must have own transportation. 130 hours required for credit.

Career Exploration courses help students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. Internships opportunities may be either paid or unpaid and give students part time employment skills in a workplace setting. In addition to employment training at the work site, students are required to participate in activities at school that support workplace education.

EDUCATION-OTHER/TUTOR
NCES: 19199
Grade: 10-12
Semesters: 1
Prerequisite: Instructor’s signature/approval

Course Note: Students receive an A-F grade; Examples of tutors include AVID, Life Skills, Core Classes, PE Student Leader and core type classes. This class may be repeated for credit with instructor’s approval.

Students receive the opportunity to support others in one of many student assistance programs.

MISCELLANEOUS - WORKPLACE EXPERIENCE (WORK STUDY)
NCES: Dependent upon Career Pathway
Grade: 11-12
Semesters: 1
Prerequisite: Counselor placement

Course Note: Pass/No Pass. 130 hours required for credit. Maximum credit per semester = 1.0. Maximum credits over high school career = 3.0.

Workplace Experience courses provide students with work experience in a field related to their interests. Goals are set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.

LEADERSHIP
NCES: 22101
Grade: 9-12
Semesters: 1
Prerequisite: Activities Director Approval and application process.

Course Note: This class may be repeated for credit with instructor’s approval.

This course is designed to strengthen students’ personal and group leadership skills. Typically intended for students involved in extracurricular activities (especially as officers of organizations or student governing bodies), these courses may cover such topics as public speaking, effective communication, human relations, parliamentary law and procedures, organization and management, and group dynamics.
OTHER PROGRAMS

**NHS ONLINE CREDIT RECOVERY**
NCES: 22051
Grade: 10-12
Semesters: 1 (can be repeated)
Prerequisite: Counselor Placement

Course Note: No credit for the class; students earn credits for the online courses completed

This class is designed for students who have failed a required course and need a credit recovery opportunity to make up the failed course for graduation. FuelEd is the online platform used for credit recovery.

To be eligible for a credit recovery course, students must have maintained at least 60% attendance in the failed classroom course and reached a grade threshold of at least 40%. The completed credit recovery course grade will be transcribed as a “C” and the failed grade, if taken at NHS, will be changed from F to NC (no credit).

**OFFICE AIDE/OFFICE**
NCES: 22051
Grade: 11-12
Semesters: 1
Prerequisite: Staff signature/approval

Course Note: Pass/No Pass; Examples of an office aide include Career Center, Main Office, Kitchen, Library, Counseling and Attendance. This class may be repeated for credit with staff’s approval.

This course provides students with the opportunity to work in campus offices, developing skills related to clerical office work. Duties may include, typing, filing, record-keeping, greeting visitors, and answering phones.

**OFFICE AIDE/TEACHER**
NCES: 22051
Grade: 11-12
Semesters: 1
Prerequisite: Instructor’s signature/approval

Course Note: Pass/No Pass; This class may be repeated for credit with instructor’s approval.

This course provides students with the opportunity to work in campus offices, developing skills related to clerical office work. Duties may include, among others, typing, filing, record keeping, receiving visitors, and answering the telephone.

**HIGH SCHOOL SUCCESS & BEYOND**
NCES: 22003
Grade: 9-12
Semesters: Full Year
Prerequisite: Ideally, students should have a C or better GPA and be motivated to do well in school and pursue post-secondary options.

Do you often wonder what success looks like in high school? Do you want to develop the skills needed to be confident in high school, college and life? Are there tools you already have but still need a boost to structure your learning, study habits, and organizational skills?

This class is designed to prepare students for success in high school and/or for postsecondary education. Course topics may vary according to the students involved, but typically include reading improvement skills, such as scanning, note taking, and outlining; research skills; speaking, listening and note taking; vocabulary skills; and test taking skills. The course may also include exercises designed to generate organized, logical thinking and writing. This course will educate students on all post secondary options and help them decide on what they will do after graduation.

It will be necessary for students in this course to manage their time so that school and studies become a top priority. This means that they will need to be responsible for making wise and sometimes difficult choices. Because this course is so important to the success of those enrolled in it, students may be required to go through a screening process.
PERFORMING ARTS

MEN’S CHOIR
NCES: 05110
Grade: 9-12
Semesters: Full Year
Fee: Uniform Fee up to $60 (Financial assistance available based on need.)
Prerequisite: No experience necessary

Course Note: Level 1. Public performances expected. Class may be repeated for credit with instructor’s consent. Men’s Choir may be combined with Women’s Choir into one mixed choir class depending on class size.

Men’s choir teaches students to develop their voices as tenor, baritone and bass singers, singing chant to Do-wop, classical to musical theater. Learning targets cover how to sing with good tone, expand the singing range, read music, work as a team and appreciate music from all over the world.

WOMEN’S CHOIR
NCES: 05110
Grade: 9-12
Semesters: Full Year
Fee: Uniform Fee up to $60 (Financial assistance available based on need.)
Prerequisite: No experience necessary

Course Note: Level 1. Public performances expected. Class may be repeated for credit with instructor’s consent. Women’s Choir may be combined with Men’s Choir into one mixed choir class depending on class size.

Women’s choir teaches students to develop their voices as soprano, mezzo-soprano and alto singers, singing world music to Do-wop, classical to musical theater. Learning targets cover how to sing with good tone, expand the singing range, read music, work as a team and appreciate music from all over the world.

CONCERT CHOIR (or TREBLE ENSEMBLE)
NCES: 05110
Grade: 9-12
Semesters: Full Year
Fee: Uniform Fee up to $60 (Financial assistance available based on need.)
Prerequisite: Men’s/Women’s Choir or Audition with Choir Director

Course Note: Level 2. Public and festival performances expected. Class may be repeated for credit with instructor’s consent.

Concert choir is for advanced soprano and alto singers, singing world music, classical and musical theater. Learning targets cover intermediate tone production, diction, languages, expansion of the singing range, working as a team and the examination and appreciation of intermediate level choral music.

SYMPHONIC CHOIR
NCES: 05110
Grade: 10-12 (9th Grade by special permission)
Semesters: Full Year
Fee: Uniform Fee up to $60 (Financial assistance available based on need.)
Prerequisite: Audition required, OSAA academic eligibility enforced

Course Note: Level 3. Public and festival performances expected. Class may be repeated for credit with instructor’s consent.

Chorus courses provide the opportunity to sing a variety of choral literature styles for men’s and/or women’s voices and are designed to develop vocal techniques and the ability to sing parts. This OSAA-sanctioned choir represents Newberg at Pacific Conference and OSAA events, State and area competitions throughout the year. Learning targets cover advanced tone production, diction, languages, expansion of the singing range, working as a team and the examination and appreciation of important historical masterworks.
PERFORMING ARTS

VOCALPOINT
NCES: 05111
Grades: 10-12
Semesters: Full Year
Fee: Uniform Fee up to $60 (Financial assistance available based on need.)
Prerequisite: Audition with Choir Director and concurrent membership in Symphonic Choir

Course Note: Level 4. Public and festival performances expected. Class may be repeated for credit with instructor’s consent. Women purchase a black tea-length dress, Men purchase a tuxedo vest ensemble.

This advanced vocal ensemble is our premiere vocal ensemble singing chamber choir music, vocal jazz, world music and musical theater. Learning targets cover advanced vocal techniques, vocal styling and working as a team.

MUSIC THEORY
NCES: 05113
Grade: 9-12
Semesters: 1
Prerequisite: None

Course Note: Level 1
Students focus on developing aural and visual skills for music analysis, melodic and harmonic dictation and sight singing. Students work on harmonic, form analysis and compositional skills.

AP MUSIC THEORY (offered depending upon enrollment)
NCES: 05114
Grade: 11-12
Semesters: Full Year
AP Exam Fee: $94
Prerequisite: 2 Years of music ensemble strongly suggested.

Course Note: Level 2; Students are expected to take AP test.

AP Music Theory courses are designed to be equivalent of a first-year music theory college course as specified by the College Board. AP Music Theory develops students’ understanding of musical structure and compositional procedures. Usually intended for students who already possess performance-level skills.

CONCERT BAND
NCES: 05102
Grade: 9-12
Semesters: Full Year
Fee: Uniform Fee up to $60 (Financial assistance available based on need.)
Prerequisite: Instructor Consent, 1 year of previous band experience recommended

Course Note: Level 1; Public performances are expected. May be repeated for credit.

Open to any student with previous musical experience or a desire to learn to play on a woodwind, brass or percussion instrument, Concert Band provides an opportunity to develop musicianship skills through exposure to a variety of musical styles. Students perform at four concerts and one festival outside of school.

SYMPHONIC BAND
NCES: 05102
Grade: 10-12
Semesters: Full Year
Fee: Uniform Fee up to $60 (Financial assistance available based on need.)
Prerequisite: Concert Band or Instructor consent

Course Note: Level 2; Public performances are expected. May be repeated with Instructor consent

Courses in concert Band are designed to promote students’ technique for playing brass, woodwind, and percussion instruments and cover a variety of band literature styles, primarily for concert performances. Open to students who have completed Concert Band, Symphonic Band provides an opportunity to further develop musicianship skills through exposure to a variety of musical styles while preparing students for Wind Ensemble. Students perform at four concerts and one festival outside of school.

GUITAR
NCES: 05108
Grade: 9-12
Semesters: 1
Materials Fee: $15

Course Note: May be repeated for credit.

Guitar courses introduce students to the fundamentals of music and guitar-playing techniques, such as strumming and chords. These courses may also include more advanced guitar-playing techniques.
PERFORMING ARTS

WIND ENSEMBLE
NCES: 05102
Grade: 10-12
Semesters: Full Year
Fee: Uniform Fee up to $60 (Financial assistance available based on need.)
Prerequisite: Audition Required, OSAA Academic Eligibility Enforced

Course Note: Level 3; Public performances are expected. May be repeated with Instructor consent

Courses in Concert Band are designed to promote students’ technique for playing brass, woodwind, and percussion instruments and cover a variety of band literature styles, primarily for concert performances. This audition only group represents the top level of our band program and represents NHS at OSAA events while giving students the opportunity to perform at the highest musical level. Students perform at approximately 7 concerts and up to four festivals outside of school.

JAZZ BAND
NCES: 05105
Grade: 9-12
Semesters: Full Year
Fee: Uniform Fee up to $60 (Financial assistance available based on need.)

Prerequisite: Audition Required

Course Note: Level 1, Public Performances are Expected, May be repeated with Instructor consent. Concurrent membership in a concert band required.

Contemporary Band courses help students develop their techniques for playing brass, woodwind, percussion, and string instruments, as well as guitars and keyboards, focusing primarily on contemporary stage band literature styles, such as traditional jazz, jazz improvisation, and rock. This audition only group represents the top level of our jazz program and represents NHS at league and state festivals while providing the opportunity to further develop improvisation skills through exposure to a variety of contemporary musical styles. Students perform at approximately 8 concerts and up to four festivals outside of school.

JAZZ ENSEMBLE
NCES: 05105
Grade: 10-12
Semesters: Full Year
Fee: Uniform Fee up to $60 (Financial assistance available based on need.)

Prerequisite: Audition Required

Course Note: Level 2; Concurrent membership in a concert band required. Public performances are expected. Course may be repeated for credit.

Contemporary Band courses help students develop their techniques for playing brass, woodwind, percussion, and string instruments, as well as guitars and keyboards, focusing primarily on contemporary stage band literature styles, such as traditional jazz, jazz improvisation, and rock. This audition only group represents the top level of our jazz program and represents NHS at league and state festivals while providing the opportunity to further develop improvisation skills through exposure to a variety of contemporary musical styles. Students perform at approximately 8 concerts and up to four festivals outside of school.

ORCHESTRA
NCES: 05104
Grade: 9-12
Semesters: Full Year
Fee: Uniform Fee up to $60 (Financial assistance available based on need.)

Prerequisite: Audition or instructor consent

Course Note: Public performances are expected. This course may be repeated for credit.

Orchestra courses are designed to develop students’ abilities to play string instruments, covering a variety of string and orchestral literature styles. As part of this course, students will participate in at least four concerts outside of the school day and at least one OSAA sanctioned competition.

In the event that a second level of Orchestra is offered (Chamber Orchestra), an audition for level 2 will be required.
PERFORMING ARTS

CHAMBER ORCHESTRA
NCES: 05104
Grade: 9-12
Semesters: Full Year
Fee: Uniform Fee up to $60 (Financial assistance available based on need.)
Course Note: Level 2; Public performances are expected. May be repeated for credit.

Chamber orchestra is an upper-level music course in which students study music from multiple time periods, genres, and cultures by playing a variety of string literature. Students in this class will be expected to complete outside performances and attend league competitions. Entry into this course requires an audition with the orchestra teacher.

PERCUSSION ENSEMBLE
NCES: 05106
Grade: 9-12
Semesters: Full Year
Materials Fee: $15
Course Note: Public performances are expected. This course may be repeated for credit.

Instrumental Ensemble courses are intended to develop students’ technique for playing brass, woodwind, percussion, and/or string instruments in small ensemble groups. Instrumental Ensemble courses cover one or more instrumental ensemble or band literature styles. Open to any student interested in playing a percussion instrument, percussion ensemble provides an opportunity to learn music reading skills and drum technique through performance at football games. Students perform at up to five football games and one concert in the fall.

INTRODUCTION TO THEATER
NCES: 05051
Grade: 9-12
Semesters: 1

Introduction to Theater courses provide an overview of the art, conventions, and history of the theater. Although the courses sometimes include experiential exercises, they emphasize learning about the theater along with performance. Students learn about one or more of the following topics: basic techniques in acting, major developments in dramatic literature, major playwrights, the formation of theater as a cultural tradition, and critical appreciation of the art.

DRAMA - ACTING/PERFORMANCE
NCES: 05055
Grade: 9-12
Semesters: 1
Prerequisite: Introduction to Theater, Stage Movement or instructor consent.

Drama - Acting/Performance courses are intended to promote students’ experience and skill development in one or more aspects of theatrical production, but they concentrate on acting and performance skills. Initial courses are usually introductory in nature, while the more advanced courses focus on improving technique, expanding students’ exposure to different types of theatrical techniques and traditions, and increasing their chances of participating in public productions.

STAGE MOVEMENT
NCES: 05003
Grade: 9-12
Semesters: 1
Prerequisite: Introduction to Theater

Stage Movement courses help develop students’ ability to incorporate movements of the stage, focusing on character identity and movement, pantomime, stage combat, relaxation and breathing techniques.

MUSICAL THEATER
NCES: 05060
Grade: 11-12
Semesters: 1
Prerequisite: Introduction to Theater & Stage Movement

During this class the students will be exposed to different types, ages and genres of musical theater as well as performing for end of the year events. Class would be made up of individual and group work studying musicals, directors and choreographers. Projects would be for class as well as end of semester public performance. Projects would be collaboratively worked on between actors, technicians and adult staff. Study topics would include music, history of musicals, styles of musicals, research of prominent musical theater directors and writers as well as choreography and performance techniques. Opportunity for producing a small cast musical as part of the class is a definite possibility.
PERFORMING ARTS/PHYSICAL EDUCATION

PERFORMING ARTS

STAGECRAFT 1 & 2
NCES: 05056
Grade: 9-12
Seminesters: 1
Materials Fee: $20 Priorerequisite: Courses must be taken in sequence.

Course Note: Level 2 class may be repeated for credit with instructor’s approval.

Drama - Stagecraft courses are intended to help students develop experience and skill in one or more aspects of theatrical production, but concentrate on stagecraft (such as lighting, costuming, set construction, makeup, stage management, and so on). Initial courses are usually introductory in nature, while more advanced courses concentrate on improving technique, expanding students’ exposure to different types of theatrical techniques and traditions and increasing their chances of participating in public productions. These courses may also provide a discussion of career opportunities in the theater.

STAGECRAFT 3
NCES: 05056
Grade: 10-12
Seminesters: 1
Materials Fee: $25 Prerequisite: Stagecraft 1&2

Stagecraft 3 is an upper level design based course. Students will use the skills they learned in Stagecraft 1 and 2 as a basis for learning design techniques in Lighting, Sound, Scenic, Costumes and Make-up. The class will meet during Stagecraft 1 during 1st semester (and/or 2nd semester if needed) and the students will be called on to mentor some younger students in that class. This class content gives the students the ability to move forward in a college setting or public theater arena with a basic knowledge of design in all the disciplines.

PHYSICAL EDUCATION

NHS Physical Education has a Two (2) Tiered program. In Tier 1, all students must take Physical Education and one (1) of the other following classes (Fitness/Conditioning Activities/Personal Fitness for Women, Recreational Sports 1, Team Sports 1, Weight Training 1) before he/she can take one of the Tier 2 classes. All Tier 2 courses may be repeated for credit.

TIER 1- All of the students must take Physical Education and one of the four Tier 1 classes. All students must purchase a PE uniform- cost is $15. P. E. Lock is $6.
Required: Physical Education
Pick one (1) of the following:
- Fitness/Conditioning Activities/ Personal Fitness for Women
- Recreational Sports 1
- Team Sports 1
- Weight Training 1

PHYSICAL EDUCATION
NCES: 08001
Grade: 9-10 (9th grade recommended)
Seminesters: 1

Physical Education courses provide students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.

FITNESS ACTIVITIES/PERSOALNAL FITNESS FOR WOMEN
NCES: 08005
Grade: 9-12
Seminesters: 1

Course Note: May be repeated for credit.

This personal training for women class is designed to meet the needs of the female student/athlete. Emphasis will be placed Olympic weightlifting, strength development, speed and agility, with conditioning to maximize their physical potential.
PHYSICAL EDUCATION

RECREATIONAL SPORTS 1 & 2
NCES: 08004
Grade: 9-12
Semesters: 1
Prerequisite: Completion of Tier 1 before taking a Tier 2 course.

Recreation Sports courses provide students with knowledge, experience, and an opportunity to develop skills in more than one recreational sport or outdoor pursuit (Units to include disc golf, hiking, climbing, trail running, archery, fly fishing, kayaking if available).

TEAM SPORTS 1 & 2
NCES: 08002
Grade: 9-12
Semesters: 1
Prerequisite: Completion of Tier 1 before taking a Tier 2 course.

Team Sports 1- Students will learn and be able to demonstrate a variety of specific skills designed to enhance play in team sports. (Volleyball, basketball, soccer, football, handball, ultimate Frisbee, indoor hockey softball, speedball)

Team Sports 2 - This course is designed for a higher level of athletic competitiveness.

WEIGHT TRAINING 1, 2
NCES: 08009
Grade: 9-10
Semesters: 1
Prerequisite: Completion of Tier 1 before taking a Tier 2 course.

Weight Training courses help students develop knowledge and skills with free weights while emphasizing safety and proper body positioning; they may include other components such as anatomy and conditioning. This weights and conditioning class is designed to enhance functional movement in the student. Emphasis will be placed on weightlifting, strength development, speed and agility, with conditioning to maximize their physical potential.

WEIGHT TRAINING 3
NCES: 08009
Grade: 11-12
Semesters: 1
Prerequisite: Completion of Weight Training 1 & 2 is required before taking Weight Training 3 or with instructor approval. Level 3 may be repeated with instructor approval.

Weight Training 3 is specifically designed to cater to competitive athletes and their multi dynamic training needs. It will focus on weight lifting along with strength training, plyometric training, and conditioning that can be more tailored toward the specific athlete’s needs. Set rep schemes are designed to maximize the athlete’s needs in and out of season.

ADAPTIVE PHYSICAL EDUCATION
NCES: 08007
Grade: 9-12
Semesters: 1
Course Notes: Counselor placement only.

This course provides physical education activities (sports, fitness, and conditioning) adapted for students with special needs.
SCIENCE

PHYSICAL SCIENCE
NCES: 03159 NCAA APPROVED COURSE
Grade: 9
Semesters: Full Year
Course Note: Satisfies Physical Science graduation requirement.

Physical Science courses involve the study of the structures and states of matter. In this course students will explore how humans study and use the laws of nature to design transportation devices. Students will also study our planet, and how our natural resources are used. Interwoven throughout is energy and energy transformations, as well as how scientists and engineers study and use materials to benefit society.

PHYSICAL SCIENCE (for upper classmen)
NCES: 03159 NCAA APPROVED COURSE
Grade: 10-12
Semesters: Full Year

This physical science course is for students who did not have the opportunity to complete the course in 9th grade. Satisfies Physical Science graduation requirement.

BIOLOGY
NCES: 03051 NCAA APPROVED COURSE
Grade: 9-12
Semesters: Full Year
Course Note: 9th Grade based on teacher recommendation. Satisfies Life Science graduation requirement.

Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

MARINE BIOLOGY
NCES: 03005 NCAA APPROVED COURSE
Grade: 10-12
Semesters: Full Year
Prerequisite: Biology

Courses in Marine Science focus on the content, features, and possibilities of the earth’s oceans. They explore marine organisms, conditions, and ecology and sometimes cover marine mining, farming, and exploration.

HONORS BIOLOGY
NCES: 03052 NCAA APPROVED COURSE
Grade: 9-12
Semesters: Full Year
Fee: Willamette Promise $30
Course Note: 9th Grade based on teacher recommendation. Satisfies Life Science graduation requirement. 4 WOU credits available.

Students will practice scientific skills by describing the structure of cells, investigating how cells process energy, and analyzing the patterns of cellular information flow that shape genetic inheritance. The sequence is designed for students not intending to pursue further study in the biological sciences.

BIOLOGY/OREGON ECOLOGY
NCES: 03063
Grade: 11-12
Semesters: Full Year
Materials Fee: Lab/Field trip fee will be charged for 3 day field trip (scholarships are available).
Prerequisite: Biology
Course Note: Approved Advanced course for Honors Diploma.

Particular Topics in Biology courses concentrate on a particular subtopic within the field of biology (such as botany, zoology, genetics, and so on) that is not otherwise described within this classification system.

CONCEPTUAL CHEMISTRY
NCES: 03105
Grade: 10-12
Semesters: Full Year
Materials fee: $15
Prerequisite: Algebra I

Course Note: Satisfies Physical Science graduation requirement

Conceptual Chemistry courses are practical, non-quantitative chemistry courses designed for students who desire an understanding of chemical concepts and applications. This chemistry class is for students who are interested in learning the essential skills of chemistry through projects and practical applications and who do not plan to go into a medical or scientific field of study.
SCIENCE

CHEMISTRY
NCES: 03101 NCAA APPROVED COURSE
Grade: 10-12
Semesters: Full Year
Materials fee: $15
Prerequisite: Biology & Algebra 1

Course Note: Satisfies Physical Science graduation requirement.

Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure.

HONORS CHEMISTRY
NCES:03102 NCAA APPROVED COURSE
Grade: 10-12
Semesters: Full Year
Materials Fee: $15/Willamette Promise $30
Prerequisite: Biology, Algebra 1 (Geometry concurrently)

Course Note: Approved advanced course for Honors Diploma. Satisfies Physical Science graduation requirement. 4 WOU credits available.

This is a college level course (Chemistry 104) designed for students majoring in science, pre-professional health studies or pre-engineering who need a refresher or who have not completed the year of high school chemistry required for enrollment in Chemistry 221-223. Students will be provided with a background into the language and mathematics necessary for success in the Chemistry 221-223 sequence. Topics include the use of significant figures, the metric system, problem-solving, stoichiometric calculations, solution calculations, nomenclature, electronic structure and periodic trends. In addition, this course will provide the background needed to understand the chemistry behind current environmental issues affecting society. Topics such as air pollution, water pollution, ozone depletion, climate change and energy will be explored.

AP CHEMISTRY
NCES:03106 NCAA APPROVED COURSE
Grade: 11-12
Semesters: Full Year
Materials Fee: $15
AP Exam Fee: $94
Prerequisite: Chemistry and Algebra 2

Course Note: Students are expected to take AP test. Approved advanced course for Honors Diploma. 4 WOU credits available.

Following the curricula recommended by the College Board, AP Chemistry courses usually follow high school chemistry and second-year algebra. Topics covered may include atomic theory and structure; chemical bonding; states of matter; and reactions (stoichiometry, equilibrium, kinetics, thermodynamics). AP Chemistry laboratories are equivalent to those of typical college courses.

FORENSICS/INTEGRATED SCIENCE
NCES: 03201 NCAA APPROVED COURSE
Grade: 11-12
Semesters: Full Year
Materials Fee: $15
Prerequisite: 2 Lab Sci. (Biology & Chemistry Recommended)

The specific content of Integrated Science courses varies, but they draw upon the principles of several scientific specialties—earth science, physical science, biology, chemistry, and physics—and organize the material around thematic units. Common themes include systems, models, energy, patterns, change, and constancy. These courses use appropriate aspects from each specialty to investigate applications of the theme.
SCIENCE

PHYSICS
NCES: 03151  NCAA APPROVED COURSE
Grade: 10-12
Semesters: Full Year
Prerequisite: Alg. 2 is strongly suggested (student may be concurrently enrolled in Alg. 2)

Course Note: Approved advanced course for Honors Diploma. Satisfies Physical Science graduation requirement.

Physics is the study of the motion and energy of matter. Concepts will include: Newtonian mechanics; work, energy and mechanical waves. It is a college-prep course designed for students to investigate and develop a working knowledge of the concepts and problems in introductory physics. Mathematics is used as a fundamental model to further apply basic concepts.

INTRODUCTION TO MEDICAL SCIENCES
NCES: 14001
Grade: 11-12
Semesters: Full Year
Fee: $30 (Willamette Promise)
Prerequisite: Biology

Course Note: 2 OIT credits available.

This course is a survey of medical and health-related occupations including biomedical sciences. Information includes discussion of health care structure, private and publics entities, the research community and trends in health education and practice. Through a partnership with Willamette Promise, students will not only gain exposure to an array of health-related fields, but also will have an opportunity to earn college credit.

ANATOMY & PHYSIOLOGY
NCES: 03053  NCAA APPROVED COURSE
Grade: 11-12
Semesters: Full Year
Materials Fee: $20/Willamette Promise $30
Prerequisite: Biology and Chemistry

Course Note: Approved Advanced course for Honors Diploma. Up to 6 OIT credits available.

Usually taken after a comprehensive initial study of biology, Anatomy and Physiology courses present the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals.
SECOND LANGUAGE

FRENCH 1
NCES: 06121 NCAA APPROVED COURSE
Grade: 9-11
Semesters: Full Year

Designed to introduce students to French language and culture, French 1 emphasizes basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. French culture is introduced through the art, literature, customs, and history of the French-speaking people.

FRENCH 2
NCES: 06122 NCAA APPROVED COURSE
Grade: 10-12
Semesters: Full Year
Prerequisite: Completed French 1 with a "C" or better and/or teacher recommendation

French 2 courses build upon skills developed in French 1, extending students’ ability to understand and express themselves in French and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of French-speaking people to deepen their understanding of the culture(s).

FRENCH 3
NCES: 06123 NCAA APPROVED COURSE
Grade: 11-12
Semesters: Full Year
Prerequisite: French 1 & 2, with a “C” or better and/or teacher recommendation

Course Note: Approved advanced course for Honors Diploma.

French 3 courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

FRENCH 4
NCES: 06124 NCAA APPROVED COURSE
Grade: 12
Semesters: Full Year
Prerequisite: French 1, 2 & 3, with a “C” or better and/or teacher recommendation

Course Note: Approved advanced course for Honors Diploma.

French 4 courses focus on advancing students’ skills and abilities to read, write, speak, and understand the French language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary.

GERMAN 1
NCES: 06201 NCAA APPROVED COURSE
Grade: 9-11
Semesters: Full Year

Designed to introduce students to German language and culture, German 1 courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. German culture is introduced through the art, literature, customs, and history of the German-speaking people.

GERMAN 2
NCES: 06202 NCAA APPROVED COURSE
Grade: 10-12
Semesters: Full Year
Prerequisite: German 1, with a “C” or better and/or teacher recommendation

German 2 courses build upon skills developed in German 1, extending students’ ability to understand and express themselves in German and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of German-speaking people to deepen their understanding of the culture(s).
SECOND LANGUAGE

GERMAN 3
NCES: 06203 NCAA APPROVED COURSE
Grade: 11-12
Semesters: Full Year
Prerequisite: German 2 with a “C” or better and/or teacher recommendation

Course Note: Approved advanced course for Honors Diploma.

German 3 courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

GERMAN 4
NCES: 06204 NCAA APPROVED COURSE
Grade: 12
Semesters: Full Year
Prerequisite: German 3 with a “C” or better and/or teacher recommendation

Course Note: Approved advanced course for Honors Diploma.

German 4 courses focus on advancing students’ skills and abilities to read, write, speak, and understand the German language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary.

SPANISH 1
NCES: 06101 NCAA APPROVED COURSE
Grade: 9-11
Semesters: Full Year

Designed to introduce students to Spanish language and culture, Spanish 1 courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people.

SPANISH 2
NCES: 06102 NCAA APPROVED COURSE
Grade: 9-12
Semesters: Full Year
Prerequisite: Spanish 1, with a “C” or better and/or teacher recommendation

Spanish 2 courses build upon skills developed in Spanish 1, extending students’ ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

SPANISH 3
NCES: 06103 NCAA APPROVED COURSE
Grade: 11-12
Semesters: Full Year
Prerequisite: Spanish 1 & 2, with a “C” or better and/or teacher recommendation

Course Note: Approved advanced course for Honors Diploma.

Spanish 3 courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.
SECOND LANGUAGE

SPANISH 4
NCES: 06104 NCAA APPROVED COURSE
Grade: 12
Semesters: Full Year
Prerequisite: Spanish 1, 2 & 3, with a “C” or better and/or teacher recommendation

Course Note: Approved advanced course for Honors Diploma. Up to 4 PCC Dual Credits are available

Spanish 4 courses focus on advancing students’ skills and abilities to read, write, speak, and understand the Spanish language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary.

SPANISH FOR NATIVE SPEAKERS 1 & 2
NCES: 06106 NCAA APPROVED COURSE
Grade: 9-12
Semesters: Full Year
Prerequisite: Courses must be taken in sequence.

Course Note: Spanish for Native Speakers 1 & 2 satisfies the second language requirement. Students may take Spanish for Native Speakers course for elective credit.

Spanish for Native Speakers courses support, reinforce, and expand students’ knowledge of their own tongue. Because students understand at least the rudiments and structure of the language and have a working vocabulary (to a greater or lesser degree), Spanish for Native Speakers courses often move faster than do regular Spanish foreign language courses and emphasize literary development (with a study of literature and composition). These courses may also include the culture or history of the people and introduce translation skills. Students who complete level 2 may consider taking the AP Spanish test.

SPANISH – CREDIT RECOVERY
NCES: 06999
Grade: 11-12
Semesters: Semester or Full Year
Prerequisite: D or F in required Spanish course after 1 or 2 attempts

Course Note: Placement by counselor and/or teacher only

Spanish CR (Credit Recovery) is designed to provide students the opportunity to work closely with a teacher in a smaller class to recover up to two semesters of Spanish (mainly level 2, but possibly level 3 as well) to fulfill the graduation requirement and/or receive acceptable grades on their transcript for future college applications.
SOCIAL SCIENCE

MODERN WORLD HISTORY
NCES: 04053 NCAA APPROVED COURSE
Grade: 9
Semesters: Full Year

Course Note: Meets graduation requirement for World Studies

Modern World History courses provide an overview of the history of human society from the late 19th century through the contemporary period—exploring political, economic, social, religious, military, scientific, and cultural developments.

MODERN U.S. HISTORY
NCES: 04103 NCAA APPROVED COURSE
Grade: 10
Semesters: Full Year

Course Note: Meets graduation requirement for American Studies

Modern U.S. History courses examine the history of the United States from the Civil War or Reconstruction era (some courses begin at a later period) through the present time. These courses typically include a historical review of political, military, scientific, and social developments.

AP U.S. HISTORY
NCES: 04104 NCAA APPROVED COURSE
Grade: 10-12
Semesters: Full Year
AP Exam Fee: $94

Course Note: Meets graduation requirement for American Studies. College level coursework; summer reading assignments TBA; Students are expected to take AP test. Approved advanced course for Honors Diploma.

Following the College Board’s suggested curriculum designed to parallel college-level U.S. History courses, AP U.S. History courses provide students with the analytical skills and factual knowledge necessary to address critically problems and materials in U.S. history. Students learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. The course examines the discovery and settlement of the New World through the recent past.

AP EUROPEAN HISTORY
NCES: 04056 NCAA APPROVED COURSE
Grade: 11-12
Semesters: Full Year
AP Exam Fee: $94

Course Note: Meets graduation requirement for World Studies. College level coursework; summer reading assignments TBA; Students are expected to take AP test. Approved advanced course for Honors Diploma.

Following the College Board’s suggested curriculum designed to parallel college-level European History courses, AP European History courses examine European civilization from the High Renaissance period to the recent past and also expose students to the factual narrative. In addition, these courses help students develop an understanding of some of the principal themes in modern European history and the abilities to analyze historical evidence and to express that understanding and analysis in writing.

U.S. GOVERNMENT—COMPREHENSIVE
NCES: 04151 NCAA APPROVED COURSE
Grade: 12
Semesters: 1

Course Note: Meets graduation requirement for Government.

U.S. Government—Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics.
SOCIAL SCIENCE

AP U.S. GOVERNMENT & POLITICS
NCES: 04157 NCAA APPROVED COURSE
Grade: 12
Semesters: Full Year
AP Exam Fee: $94

Course Note: Meets graduation requirement for Government & Economics. College level coursework; summer reading assignments TBA; Students are expected to take AP test. Approved advanced course for Honors Diploma.

Following the College Board’s suggested curriculum designed to parallel college-level U.S. Government and Politics courses, these courses provide students with an analytical perspective on government and politics in the United States, involving both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. The courses generally cover the constitutional underpinnings of the U.S. government, political beliefs and behaviors, political parties and interest groups, the institutions and policy process of national government, and civil rights and liberties.

ECONOMICS
NCES: 04201 NCAA APPROVED COURSE
Grade: 12
Semesters: 1

Course Note: Meets graduation requirement for Economics.

Economics courses provide students with an overview of economics with primary emphasis on the principles of microeconomics and the U.S. economic system. These courses may also cover topics such as principles of macroeconomics, international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied contexts, or both. Financial literacy is discussed as well.

PSYCHOLOGY 1
NCES: 04254 NCAA APPROVED COURSE
Grade: 11-12
Semesters: 1

Course Note: This class does not fulfill an NHS social science requirement; elective credit will be issued.

This college prep course is designed to engage students in a look at individual behavior and why an individual thinks, feels, and reacts to certain stimuli. Psychology units that are covered, but not limited to, are: a history of psychology, research methods and experiments, the brain, sensation and perception, emotion, and learning.

PSYCHOLOGY 2
NCES: 04255 NCAA APPROVED COURSE
Grade: 11-12
Semesters: 1
Prerequisite: Psychology 1

Course Note: This class does not fulfill an NHS social science requirement; elective credit will be issued.

This college prep course is a further look into human behavior and cognitive activities. Psychology 2 units that are covered, but not limited to, are: memory, intelligence, personality, psychological disorders, and treatments of psychological disorders.

SOCIOLOGY (FOR EDUCATION & RELATED CAREERS)
NCES: 04258 NCAA APPROVED COURSE
Grade: 11-12
Semesters: 1

Course Note: This class does not fulfill an NHS social science requirement; elective credit will be issued.

Sociology courses introduce students to the study of human behavior in society. These courses provide an overview of sociology, generally including (but not limited to) topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.
SOCIAL SCIENCE

NATIVE AMERICAN STUDIES
NCES: 04107
Grade: 11-12
Semesters: 1

Course Note: This class does not fulfill an NHS social science requirement; elective credit will be issued.

Native American Studies is an overview of Native American culture and their experiences in North America from before the Europeans arrived to where we are now with the tribes still fighting for recognition and dealing with ongoing problems on their reservations. By examining the effects of disease, warfare, treaties, and legislation, students will see how American Indians lost their land and autonomy, and how they continue to try and gain it back. Students will learn and study the information from the perspective of Native Americans and European Americans and the course will cover some familiar aspects of US history such as the American Revolution, Western Expansion, the New Deal and the 60s movement for civil rights and change.

MINDFUL STUDIES
NCES: 04299
Grade: 10-12
Semesters: 1

Course Note: This class does not fulfill an NHS social science requirement; elective credit will be issued.

Mindful Studies is a psychology course designed to help students purposefully pay attention to their thoughts and feelings in order to understand why they think, feel, and act the way they do. Students will develop healthy decision-making skills and learn to properly respond to life’s challenges. This course will provide students with basic tools to help them develop an independent mindfulness practice including meditation, mindful movement, and self-reflective journaling.
SPECIAL EDUCATION

Students with an Individualized Education Plan (IEP) will be scheduled into classes based on the requirements of their plan. Students on IEP’s have access to a Study Skills support class.

COMMUNICATION INSTRUCTION/FAST FORWARD
NCES: 22252
Grade: 9-12
Semesters: 1
Prerequisite: Case Manager Placement

Course Note: Pass/Fail

Communication Instruction courses are typically individualized according to each student’s condition and needs. Increasing the student’s communication skills—oral expression, listening comprehension, reading, and writing—is emphasized; communication techniques in several areas (educational, social, and vocational) are often explored.

LIFE SKILLS/ILS
NCES: 19257
Grade: 9-12
Semesters: Full Year
Prerequisite: Case Manager Placement

Course Note: This class will be graded with both a Pass/Fail and letter grade.

Life Skills courses provide students with information about a wide range of subjects to assist them in becoming wise consumers and productive adults. These courses often emphasize such topics as goal-setting, decision-making, and setting priorities; money and time management; relationships; and the development of the self. Practical exercises regarding selecting and furnishing houses, meeting transportation needs, preparing food, selecting clothing, and building a wardrobe are often integral to these classes. In addition, specific topics such as insurance, taxation, and consumer protection may also be covered.

STUDY SKILLS/LRC
NCES: 022003
Grade: 9-12
Semesters: Full Year
Prerequisite: Case Manager Placement Course Note: Pass/Fail

Study Skills courses prepare students for success in high school and/or for postsecondary education. Course topics may vary according to the students involved, but typically include reading improvement skills, such as scanning, note-taking, and outlining; library and research skills; listening and note-taking; vocabulary skills; and test-taking skills. The courses may also include exercises designed to generate organized, logical thinking and writing.
It is the policy of the Newberg Board of Education and School District that there will be no discrimination or harassment on the grounds of race, color, sex, marital status, religion, national origin, age or disability in any educational programs, activities or employment. Persons having questions about equal opportunity and nondiscrimination should contact Newberg School District Office at 503-554-5000. Newberg School District is an equal opportunity employer and educator.