Wilmot Union High School Mission Statement

As a professional learning community, Wilmot Union High School’s core purpose is to ensure our students are college, career, and civic ready by fostering a culture of life-long learning.

District Vision

As a learning community and through community involvement, Wilmot Union High School has developed a clear sense of who we want to become through a process where district stakeholders: students, staff, parents, community members, business partners and Board of Education members came together and identified the key characteristics and values we want to exemplify. These characteristics and values were aligned under five pillars to further define the key areas of focus for our learning community.

I. Safe and Supportive Learning Environment
II. Equity and Access for All Students
III. Community Partnerships
IV. Collaborative Culture for Learning
V. Curriculum, Instruction and Assessment

It is through these five pillars and their guiding statements that WUHS and our stakeholders will empower one another to create and fulfill the goals and commitments that will bring our vision to fruition. We invite every stakeholder of the WUHS learning community to enter in to this process of adopting the defined values to fulfill our vision of an exemplary school.
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# Graduation Requirements

<table>
<thead>
<tr>
<th>Subject</th>
<th>WUHS Minimum Graduation Requirements</th>
<th>Minimum Requirements for College Admission</th>
<th>Recommendation for Highly Selective Colleges</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
<td>4 college bound credits recommend AP level</td>
<td>4 – 5 credits including AP level</td>
</tr>
<tr>
<td>Math</td>
<td>3</td>
<td>3 credits to include Algebra I, Geometry &amp; Algebra II</td>
<td>4 credits including AP level</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
<td>3 credits Recommend AP level</td>
<td>4 + credits to include Biology, Chemistry, Physics including AP level</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>4</td>
<td>3 credits Recommend AP level</td>
<td>4 + credits including AP level</td>
</tr>
<tr>
<td>World Language</td>
<td>0</td>
<td>Varies from college to college</td>
<td>4 credits of the same language</td>
</tr>
<tr>
<td>Health</td>
<td>.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Education</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
<td>1 or more credits of performing arts required for some schools</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>4 Academic Electives</td>
<td>Academic Electives Recommended</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>17 + Academic Credits</td>
<td>20 + Academic Credits</td>
</tr>
</tbody>
</table>

*Requirements may vary, please check university admission websites. Students are encouraged to take more than the minimum number of credits, including Advanced Placement courses.

**Students seeking admission to highly competitive institutions should consider taking as many academically rigorous and Advanced Placement courses as possible. UW-Madison falls under the highly selective colleges category.*
**Graduation Planning Guide**

Wilmot Union High School requires a full time student to be enrolled in a minimum of 6 courses per semester. A minimum of 24 credits are required to fulfill graduation requirements.

Within these 24 Credits, the following subject areas are required:

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>English</td>
</tr>
<tr>
<td>1.00 Credit</td>
<td>1.00 Credit</td>
</tr>
<tr>
<td><strong>Math</strong></td>
<td><strong>Math</strong></td>
</tr>
<tr>
<td>1.00 Credit</td>
<td>1.00 Credit</td>
</tr>
<tr>
<td>Physical Education 1</td>
<td>Physical Education 2</td>
</tr>
<tr>
<td>0.50 Credit</td>
<td>0.50 Credit</td>
</tr>
<tr>
<td>Health</td>
<td>*Science</td>
</tr>
<tr>
<td>0.50 Credit</td>
<td>1.00 Credit</td>
</tr>
<tr>
<td>Science</td>
<td>World History</td>
</tr>
<tr>
<td>1.00 Credit</td>
<td>1.00 Credit</td>
</tr>
<tr>
<td>Global Studies</td>
<td>Electives</td>
</tr>
<tr>
<td>0.50 Credit</td>
<td>minimum 1.50 Credits</td>
</tr>
<tr>
<td>Civics</td>
<td></td>
</tr>
<tr>
<td>0.50 Credit</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>minimum 1.00 Credit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>English</td>
</tr>
<tr>
<td>1.00 Credit</td>
<td>1.00 Credit</td>
</tr>
<tr>
<td><strong>Math</strong></td>
<td>Financial Literacy</td>
</tr>
<tr>
<td>1.00 Credit</td>
<td>0.50 Credit</td>
</tr>
<tr>
<td>*Physical Education</td>
<td>Economics</td>
</tr>
<tr>
<td>0.50 Credit</td>
<td>0.50 Credit</td>
</tr>
<tr>
<td>*Science</td>
<td>Social Science Elective</td>
</tr>
<tr>
<td>1.00 Credit</td>
<td>0.50 Credit</td>
</tr>
<tr>
<td>US History</td>
<td>*Science</td>
</tr>
<tr>
<td>1.00 Credit</td>
<td>1.00 Credit</td>
</tr>
<tr>
<td>Electives</td>
<td>Elective</td>
</tr>
<tr>
<td>minimum 1.50 Credits</td>
<td>minimum 2.00 Credits</td>
</tr>
</tbody>
</table>

** 1 year of Algebra and 1 year of Geometry are required for graduation. 7th and 8th grade students who earn credit in Algebra and/or Geometry at Wilmot Union High School or at their respective feeder school who has transcripted their math courses with WUHS will receive GPA credit for those courses.

* 1.5 credits of Physical Education and 3 credits of Science are required for graduation. A student has the option of completing them during any of the years indicated.

**Early Graduation**

Students who wish to graduate early should meet with their school counselor to determine eligibility. Once it is determined that the student can meet graduation requirements earlier than the scheduled semester of graduation, the student, with parent approval, must complete the Early Graduation Request Form, available from their school counselor and submit it to the Principal for approval by September 1st.

Students who elect to graduate early will be responsible for completing all of the graduation requirements by the end of their 1st semester of their Senior Year. In order to do this, they will have to complete the 2nd semester of Senior Literature and Composition one of these ways:

- During the summer PRIOR to Senior Year, they will take 2nd semester Senior Literature during the summer school program. Students must fulfill the equivalent of 65 hours of on campus work to meet this requirement.
- During the 1st semester of Senior Year, they will take 2nd semester Senior Literature as an Independent Study course via a computer based program in addition to their regular course load.

**Graduation Ceremony Participation**

5
• A student will not receive a signed diploma until all Wilmot Union High School requirements have been fulfilled. Students who graduated early may participate in the graduation ceremony with their graduating class. Participation in the commencement ceremony is a privilege which can be revoked by an administrator.

• Students must be within 1 credit of meeting the graduation requirements, by 3pm on the Thursday prior to graduation, in order to participate in the Graduation Ceremony.

**UW SYSTEM MINIMUM ADMISSION REQUIREMENTS**

The University of Wisconsin System requires a minimum of 17 credits which must be distributed as follows (meeting minimum admission criteria does not guarantee admission).

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>SOCIAL STUDIES</th>
<th>MATHEMATICS</th>
<th>NATURAL SCIENCE</th>
<th>ELECTIVES</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Credits</td>
<td>3 Credits</td>
<td>3 Credits</td>
<td>3 Credits</td>
<td>4 Credits</td>
</tr>
</tbody>
</table>

Including Composition and Literature

Including History

Including Algebra and Geometry and higher math units

Lab sciences (biology, chemistry, physics) are strongly recommended and even required by some universities

4 or more Credits from the departments listed on this table or Fine Arts, Computer Sciences or World Language

Each campus may specify additional credit requirements for the remaining credits and may specify required content for all 17 credits. Some universities, for example, require a minimum of two credits in a single world language. Check with the Student Services office regarding specific requirements for the college(s) and university(ies) you are interested in attending.

*For example - UW Madison requires 4 years of English and Math, 3-4 years of Science, Social Studies, and World Language. In comparison - UW Parkside requires 4 years of English and 3 years of Math, Science & Social Studies with no requirements of a World Language. Most students should plan to take 4 years of all of the core courses (English, Math, Science and Social Studies) and at least 2 years of a World Language if they are college bound to ensure they are able to attend the university of their choice.*

*Likewise, universities require different ACT scores for admission. UW Madison requires scores between 27 and 32, whereas UW Parkside requires a 21 or higher. Again, if students are taking 4 years of all of the core courses and high levels of these core courses, they will be best prepared to score well on this highly important test.*
Additional Criteria Used In the College Admissions Process

**Standardized Test Score**

ACT or SAT depending upon the college's requirement. All WUHS students will take the ACT Test in their junior year. It is recommended that students desiring a specific college take an ACT or SAT preparatory course and take the test more than once. Most colleges in the Midwest require the ACT Test score while many schools in the east or west require the SAT.

**Activities/Special Talents/Leadership Experiences**

Some universities will review a student’s involvement in co-curricular activities and leadership roles. These factors will be very important in the admission process at highly competitive colleges and at The United States Military Academy at West Point, NY and at The United States Naval Academy at Annapolis, MD.
DIVISION I ACADEMIC REQUIREMENTS

College-bound student-athletes will need to meet the following academic requirements to practice, receive athletic scholarships, and/or compete during their first year.

Core-Course Requirement
Complete 16 core courses in the following areas:

- **ENGLISH**: 4 years
- **MATH (Algebra I or higher)**: 3 years
- **NATURAL/PHYSICAL SCIENCE (One year of lab, if offered)**: 2 years
- **ADDITIONAL ENGLISH, MATH OR NATURAL/PHYSICAL SCIENCE**: 1 year
- **SOCIAL SCIENCE**: 2 years
- **ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)**: 4 years

**Full Qualifier**
- Complete 16 core courses.
  - Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
  - Seven of the 10 core courses must be in English, math or science.
- Earn a core-course GPA of at least 2.300.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

**Academic Redshirt**
- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

**Full Qualifier:**
College-bound student-athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division I school.

**Academic Redshirt:**
College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

**Nonqualifier:**
College-bound student-athletes cannot practice, receive athletics scholarships or compete during their first year of enrollment at an NCAA Division I school.
Test Scores

When a student registers for the SAT or ACT, he or she can use the NCAA Eligibility Center code of **9999** so his or her scores are sent directly to the NCAA Eligibility Center from the testing agency. Test scores on transcripts will **NOT** be used in his or her academic certification.

A combined SAT score is calculated by adding reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. A student may take the SAT or ACT an unlimited number of times before he or she enrolls full time in college. If a student takes either test more than once, the best subscore from different tests are used to meet initial-eligibility requirements.

If a student took the SAT before March 2016 and then took the redesigned SAT at a later date, the NCAA Eligibility Center will not combine section scores from the old and redesigned SAT when determining his or her initial eligibility. The NCAA Eligibility Center will only combine section scores from the same version of the test. Because the redesigned SAT varies in design and measures different academic concepts than the old SAT, a numerical score on the old test may not be equivalent to the same numerical score on the redesigned test.

<table>
<thead>
<tr>
<th>DIVISION I FULL QUALIFIER SLIDING SCALE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CORE GPA</strong></td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>3.550</td>
</tr>
<tr>
<td>3.525</td>
</tr>
<tr>
<td>3.500</td>
</tr>
<tr>
<td>3.475</td>
</tr>
<tr>
<td>3.450</td>
</tr>
<tr>
<td>3.425</td>
</tr>
<tr>
<td>3.400</td>
</tr>
<tr>
<td>3.375</td>
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<tr>
<td>3.350</td>
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<tr>
<td>3.325</td>
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<tr>
<td>3.300</td>
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<td>3.275</td>
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<tr>
<td>3.250</td>
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<td>3.225</td>
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<td>3.200</td>
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<td>3.175</td>
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<td>3.150</td>
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<td>2.925</td>
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<tr>
<td>2.900</td>
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<tr>
<td>2.875</td>
</tr>
<tr>
<td>2.850</td>
</tr>
<tr>
<td>2.825</td>
</tr>
<tr>
<td>2.800</td>
</tr>
<tr>
<td>2.775</td>
</tr>
</tbody>
</table>

A trademark of the National Collegiate Athletic Association.
Division II Academic Requirements

College-bound student-athletes enrolling at an NCAA Division II school need to meet the following academic rules to practice, compete and receive athletics scholarships during their first year.

<table>
<thead>
<tr>
<th>Core-Course Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 16 core courses in the following areas:</td>
</tr>
<tr>
<td>• 3 years of English</td>
</tr>
<tr>
<td>• 2 years of math (Algebra I or higher)</td>
</tr>
<tr>
<td>• 2 years of natural or physical science (including one year of lab science if offered)</td>
</tr>
<tr>
<td>• 2 years of social science</td>
</tr>
<tr>
<td>• 3 additional years of English, math or natural or physical science</td>
</tr>
<tr>
<td>• 4 additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Full Qualifier</th>
<th>Partial Qualifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Complete 16 core courses</td>
<td></td>
</tr>
<tr>
<td>• Earn a core-course GPA of at least 2.000</td>
<td></td>
</tr>
<tr>
<td>• Earn an SAT combined score of at least 820 or an ACT sum score of at least 68</td>
<td></td>
</tr>
<tr>
<td>• Graduate high school</td>
<td></td>
</tr>
<tr>
<td>• Complete 16 core courses</td>
<td></td>
</tr>
<tr>
<td>• Earn a core-course GPA of at least 2.000 OR</td>
<td></td>
</tr>
<tr>
<td>• Earn an SAT combined score of at least 820 or an ACT sum score of at least 68</td>
<td></td>
</tr>
<tr>
<td>• Graduate high school</td>
<td></td>
</tr>
</tbody>
</table>

**Full Qualifier:** College-bound student-athletes may practice, compete and receive athletics scholarship during their first year of enrollment at an NCAA Division II school.

**Partial Qualifier:** College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term but may NOT compete during their first year of enrollment.

**Nonqualifier:** College-bound student-athletes may not practice, compete or receive athletics scholarships during their first year of enrollment at an NCAA Division II school.

**Test Scores**

If you take the current SAT before March 2016 and then take the redesigned SAT at a later date, the NCAA Eligibility Center will not combine section scores from the current and redesigned SAT when determining your initial eligibility. The NCAA Eligibility Center will only combine section scores from the same version of the test. Because the redesigned SAT varies in design and measures different academic concepts than the current SAT, a numerical score on the current test may not be equivalent to the same numerical score on the redesigned test.

Updated January 8, 2016
## COURSE SELECTION
### Scheduling Timeline

<table>
<thead>
<tr>
<th>Month</th>
<th>Events</th>
</tr>
</thead>
</table>
| January | • Online Course Selection Opens  
(See instructions below for accessing online course selection via Student Access) |
| February| • All Students meet with their school counselor to review course selections |
| March   | • Individual Course Selection completed by March 1<sup>st</sup>  
• Early College Credit Program (ECCP) applications are due March 1<sup>st</sup> for fall semester courses. Course selection requests will be adjusted upon acceptance into the ECCP Program |
| April   | • Course request changes are available by appointment with students’ school counselor |
| May     | • Final course request changes are due May 1<sup>st</sup> |
| June & July | • Summer School is in session  
• Final schedules are available in July upon parent completion of the annual online registration process |
| September| • School year begins  
• Schedule changes may be honored for the first three (3) days of school only for the reasons listed on page 13  
• New courses can be added during the first three (3) days of school  
• Individual Planning Conferences begin for freshmen |
| October | • Early College Credit Program (ECCP) applications are due October 1<sup>st</sup> for spring course requests. Student schedules will be adjusted based upon acceptance into the ECCP Program |
| November| • 11<sup>th</sup> grade individual planning conferences begin. |
Instructions for Accessing On-Line Course Selection via Student Access (www.wilmothighschool.com)

1. Click “Students”
2. Click “Skyward Student Access”
3. Log in using information previously provided
4. Click “Course Request”
5. Click “Courses for 2019-2020”
6. Click “Update Requests”
7. Highlight course by clicking on it
8. Click “Add Course”  
   Note: You must have minimum of 6 credits selected
9. Click “Alternative Courses”
10. Choose 2 credits of Alternative Courses

Schedule Changes
Each year a new master schedule is created to accommodate students’ course requests. Faculty members are employed, textbooks are purchased, and rooms are assigned based on these requests. For these reasons, course requests are finalized on May 1st. Changes after that date will only be allowed for the following reasons:

1) You have not met the prerequisite for a course
2) You have already taken and passed the course

Dropping a Course
A student’s request to drop a course may be considered if extraordinary circumstances warrant it and after a meeting between the student, current teacher, parent, counselor and an Associate Principal is held. In cases in which dropping a course is approved, a grade of “WF” (Withdrawn/Fail) will be assigned to the course for the current and future grade reports up to and including the semester. The “WF” will appear on transcripts as a semester grade and will be considered in GPA calculation.

Adding a Course
Students may add a class in place of a study hall during the first three (3) days of a semester if:
- space is available
- the student’s schedule does not need to be rearranged
- the change moves the student from a larger class to a smaller class with the same teacher

Course Level Changes
On occasion, students may need to change the level of the class in which they are enrolled. Level changes are a collaborative effort between parents, the student, the teacher, and the school counselor and cannot be approved until all parties involved have been able to discuss the change. Level changes will be made whenever it is deemed appropriate by all involved. Before a course level change can be approved the student must follow the Educational Problem Solving process on page 15.

The letter grade earned at the time of the level change will accompany the student to the new class.
**SPECIAL SCHEDULING OPTIONS**

**Course Review (Retake)**
Students may choose to review a course once for subject mastery. Because credit may not be duplicated, the credit earned from the original course will be removed and not considered in GPA calculation. Please see your School Counselor for an **Educational Options Form** and more information.

**Course Failures**
If only a semester of a required full year course is successfully completed, only the failed semester will need to be repeated.

**Course Audit**
Students wishing to participate in a class but do not want the traditional grade or credit issued may choose to audit a class. Students auditing a course are expected to attend the class each day, complete all assignments, take exams and finals and participate in all class activities. Please see your School Counselor for an **Educational Options Form** and more information.

**Independent Study**
When a student has a credit deficiency or a scheduling conflict that cannot be remedied in any other fashion, the student can propose an Independent Study project as an elective that applies toward graduation requirement. Students wishing to pursue an independent study project should speak with their School Counselor and complete the **Educational Options Form**, available in the Student Services Office. Independent Study Credit is limited to 0.50 per semester.

**External Credit**

**Correspondence Course Credit**
Wilmot Union High School will accept credit for correspondence coursework from accredited programs. Correspondence courses may be used as credit recovery or in extreme cases to alleviate scheduling conflicts. Wilmot Union High will accept up to 1.00 credit for correspondence work completed per high school career. This credit will not be considered in GPA calculation. Students are responsible for all costs of the course, and for having an official transcript of grades sent from the program to Wilmot Union High School. See your School Counselor for more information.

**Transfer Credits**
All transfer credits must come from accredited institutions. A transcript must be supplied by the prior school and show final grades and credits earned. Grades and credits earned at other high schools will be placed on a Wilmot transcript however; these transfer grades will not be considered when calculating GPA and class rank.

**Summer School Information**

**6-week Summer Enrichment Program** - The summer school courses will meet for the traditional six week summer school schedule. These courses will be made available to all students interested in pursuing credit acquisition. This program is designed for both incoming freshmen who want to get a jump start on their high school career and for current WUHS Students who may want to refresh their knowledge or recover credit in required coursework.
EDUCATIONAL PROBLEM SOLVING PROCESS

One of the most important lifetime skills that can be developed through participation is problem solving. Students should learn to embrace it as an educational opportunity.

The following steps should be followed in the order presented when trying to resolve a problem.

1. The student should speak with their parent/guardian regarding the problem. Discussion should focus on ways to resolve the problem. If the problem is not resolved, proceed to step #2.

2. The student should talk with the classroom teacher involved to resolve the problem. If the problem is not resolved, proceed to step #3.

3. The parent should contact the classroom teacher to arrange a parent, teacher, student conference. If the problem is not resolved, proceed to step #4.

4. The parent should contact the student’s assigned school counselor to arrange a teacher, parent, student administrator conference. If the problem is not resolved, proceed to step #5.

5. The parent should contact the building principal to arrange for a conference regarding the matter.
The Grade Point Average (GPA) is used to describe a student's academic progress. GPA's are calculated after each grading period, however only the GPA at the end of each semester will appear on a student's transcript. The table below outlines the various GPA weights as they relate to our letter grades.

**Unweighted Grades**

Unweighted grades are the most accurate reflection of earned academic progress. This number is reflective of the numeric value of an earned grade multiplied by the credit value of the course. All students earn an Unweighted GPA total that is shown on their transcript. Note: A Weighted GPA equal to the Unweighted GPA will be shown on the transcript if the student has not taken any courses that were assigned a weighted value.

**Weighted Grades**

This number reflects a grade earned in a very rigorous level of course work and is therefore granted additional grade points reflective of the challenge. As an example, Advanced Placement courses earn additional grade points due to the courses being universally accepted at colleges or universities across the country. All students taking courses that earn weighted grade points will see an Unweighted and a Weighted GPA on their transcript.

<table>
<thead>
<tr>
<th>GRADE</th>
<th>UNWEIGHTED</th>
<th>HONORS WEIGHTED</th>
<th>AP WEIGHTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
<td>4.50</td>
<td>5.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
<td>4.17</td>
<td>4.67</td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
<td>3.83</td>
<td>4.33</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
<td>3.50</td>
<td>4.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.67</td>
<td>3.17</td>
<td>3.67</td>
</tr>
<tr>
<td>C+</td>
<td>2.33</td>
<td>2.83</td>
<td>3.33</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
<td>2.50</td>
<td>3.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.67</td>
<td>2.17</td>
<td>2.67</td>
</tr>
<tr>
<td>D+</td>
<td>1.33</td>
<td>1.83</td>
<td>2.33</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
<td>1.50</td>
<td>2.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.67</td>
<td>1.17</td>
<td>1.67</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>
LAUDE SCORE

The Laude System is an internal metric to determine outstanding scholarship among students. The Wilmot High School Administration began investigating the system in 2009 and requested the School Board change to the Laude System in 2012.

The Laude System allows WUHS to review its course catalog and determine those courses which are challenging and assign point values accordingly.

Our Laude point values are as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Placement</td>
<td>2 points</td>
</tr>
<tr>
<td>Project Lead The Way (PLTW)</td>
<td>2 points</td>
</tr>
<tr>
<td>Transcripted Credit Arrangement with a technical college or university</td>
<td>2 points</td>
</tr>
<tr>
<td>Honors Designation</td>
<td>1 point</td>
</tr>
<tr>
<td>Advanced Standing</td>
<td>1 point</td>
</tr>
</tbody>
</table>

A student may determine his/her Laude Score in the following manner:

Unweighted GPA multiplied by the Total Laude Points Earned = Laude Score

*Students will receive ½ the listed point value of a yearlong course if they drop the course at the completion of the first semester.

Upon completion of the student’s seventh (7th) semester, the final Laude Score will be calculated for graduation status. Students earning a Laude Score may achieve one of the three earned academic honor categories:

- Summa Cum Laude: With Highest Praise
  - Scores of 50 or higher
- Magna Cum Laude: With Great Honor
  - Scores of 32 to 49.99
- Cum Laude: With Honor
  - Scores of 16 to 31.99

Transcript Information

Transcript information regarding classes taken and grades earned will not be changed once it is entered on the student’s transcript. Because credit may not be duplicated, in the cases of courses reviewed, credit (if earned) will be removed from the original course. The original grade will remain on the transcript but will not be reflected in GPA.
All transcripts will be delivered to higher education institutions, employers, and the military using www.parchment.com. Every student requiring a transcript will create an account on the site and request transcripts to be sent to the institutions of their choice. Students who qualify for free or reduced priced meals will be eligible to have fees waived for four (4) transcripts. Transcripts are typically processed within 2-3 days of the request. Official transcripts will include the student’s ACT scores from the state required testing date (usually in February or March of the junior year).

Any course that is paid for by Wilmot Union High School or is offered in the Wilmot Union High School Planning Guide will be counted toward credit and GPA. 7th and 8th grade students who earn credit in Algebra, Geometry, or Spanish at Wilmot Union High School or at their respective feeder school with transcribed Geometry, Algebra and/or Spanish will receive GPA credit for those courses as long as state criteria is met. Additionally, State standards require that those students must still enroll in 2 more years of math while enrolled in high school.

CLASS RANK
WUHS does not utilize or release class rank except to determine the top three students for the Wisconsin Academic Excellence Scholarship using a weighted cumulative GPA at the completion of the 7th semester. The Southern Lakes Conference Top 10 is based on the highest laude scores at the completion of the 7th semester.

Grades and credits for the following courses are recorded on a student’s transcript; however, they are not included in the GPA calculation or class rank:

- grades earned at other academic institutions
- grades earned through Correspondence Courses
- grades earned prior to 9th grade unless earned at Wilmot Union High School or through an articulated agreement.

HONOR ROLL
Honor Roll is calculated using the student’s unweighted GPA at the end of each semester. Students receiving an “I” (Incomplete) are not eligible for the honor roll. Students must be full-time and on track to graduate with their class in order to qualify for Honor Roll recognition.

- High Honor Roll includes all full-time students with a GPA at or above 3.6
- Honor Roll includes all full-time students with a GPA of 3.25 to 3.59
Advanced Placement Courses - What is Advanced Placement?
The Advanced Placement Program (AP) is a cooperative educational endeavor between high schools and colleges or universities. It allows students to enroll in college-level courses while in high school, and gives them the opportunity to show mastery by taking an AP exam. Additional work outside of the traditional school year will be required for many AP courses.

AP Exams
AP Exams are given during the second and third week of May. Every student takes the same exam at the same time. Students are not required to take the AP exam.

Benefits of AP Courses
The benefits of AP courses are multifaceted. They begin with helping the student adjust to the rigors of college/university courses; the pace, the amount of work and time involved, and the high expectations of the instructors. They continue with rigorous, challenging course work and successful completion (passing the AP exam) culminates with the student receiving credit, advanced placement or both at most colleges and universities. Students are also able to enroll in a higher level course at college as freshmen. This not only translates into time saved, but also a financial savings for each credit earned while in high school. The amount of credit received varies, depending on the college/university, the AP score and the subject. As a result, all students planning to apply and enroll in a University are strongly encouraged to take at least one AP course in their Junior and Senior year.

Cost of AP Exams
The cost is roughly $93.00 per exam. Wilmot Union High School district will cover the cost of these exams for each student enrolled in the AP course to further encourage our students to stretch themselves by taking rigorous coursework without fear of cost.

Advanced Placement Courses Offered at Wilmot Union High School

- AP Art History
- AP Studio Art
- AP 3-D Studio Art
- AP Junior Language and Composition
- AP Senior Literature and Composition
- AP Biology
- AP Chemistry
- AP Calculus AB
- AP Calculus BC
- AP Physics
- AP Statistics
- AP Economics
- AP U.S. History
- AP Psychology
- AP World History
- AP Environmental Science
- AP Human Geography
- AP Music Theory

Please note: All students planning to apply and enroll in a University are strongly encouraged to take at least one AP course in their Junior and Senior year. AP courses promote rigor, challenging course work and college readiness.
HONORS COURSE

HONORS LEVEL COURSES - WHAT IS AN HONORS LEVEL COURSE?
Honors Courses are offered by the English, Mathematics, Science and Fine Arts Departments. An Honors Course is a course that is more academically rigorous in content. The course descriptions for each Honors Course includes a summary of the content and expectations along with predictors for success. Students and their parents should review this information carefully to see if there is a match between the demands of the course and the students’ interests and abilities.

HONORS COURSES OFFERED AT WILMOT UNION HIGH SCHOOL:

- Honors Algebra 2
- Honors Geometry
- Honors Pre-Calculus
- Honors Physics
- Honors Biology
- Honors Chemistry
- Honors English I
- Honors English II
- Honors Wind Ensemble
- Honors Vocal Ensemble
Empower Tomorrow's Biomedical Science Professionals Today

Whether discovering new cancer treatments or teaching healthy lifestyle choices to their communities, today's biomedical science professionals are tackling big challenges to make the world a better place.

PLTW Biomedical Science students are taking on these same real-world challenges – and they’re doing it before they even graduate from high school. Working with the same tools used by professionals in hospitals and labs, students engage in compelling, hands-on activities and work together to find solutions to problems. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

PLTW Biomedical Science courses are part of the AP + PLTW biomedical science pathway.

Building a Strong Foundation for College and Career

By immersing students in activities like practicing suturing and constructing body structures from clay, PLTW Biomedical Science empowers students to build knowledge and skills in biomedical science, as well as in-demand, transportable skills like problem solving, critical and creative thinking, communication, and collaboration.

PLTW Engineering Students Become Tomorrow's Problem Solvers Today

From launching space explorations to delivering safe, clean water to communities, engineers find solutions to pressing problems and turn their ideas into reality. PLTW Engineering empowers students to step into the role of an engineer, adopt a problem-solving mindset, and make the leap from dreamers to doers. The program's courses engage students in compelling, real-world challenges that help them become better collaborators and thinkers. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

PLTW Engineering courses are part of the AP + PLTW engineering pathway.

Building a Strong Foundation for College and Career

Each PLTW Engineering course engages students in interdisciplinary activities like working with a client to design a home, programming electronic devices or robotic arms, or exploring algae as a biofuel source. These activities not only build knowledge and skills in engineering, but also empower students to develop essential skills such as problem solving, critical and creative thinking, communication, collaboration, and perseverance.

Bringing Computer Science to Life

At a time when computer science affects how we work and live, PLTW Computer Science empowers students in grades 9-12 to become creators, instead of merely consumers, of the technology all around them.

The program's interdisciplinary courses engage students in compelling, real-world challenges. As students work together to design solutions, they learn computational thinking – not just how to code –
and become better thinkers and communicators. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

**Building a Strong Foundation for College and Career**

Whether building apps to meet client needs or exploring cybersecurity, PLTW Computer Science engages students in interdisciplinary activities that not only build knowledge and skills in computer science, but also empower students to develop essential skills such as problem solving, critical and creative thinking, communication, collaboration, and perseverance. The program’s courses empowers students with in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they choose.

**WORK BASED LEARNING OPTIONS**

Wilmot Union High School students have many opportunities to learn about the world of work. In fact, the majority of high school students work sometime during their high school years. Students who participate in school-supervised work-based learning have additional opportunities to learn employability skills, and with many programs, occupational-skills related to their high school courses. School-supervised work-based learning reinforces for students the connection between work and school, provides a chance for meaningful contact with adults/mentors, improves their chances for successful employment as young adult, and helps solidify career interests. For more information, contact the School-to-Career Coordinator, Tracy Strother at (262) 862-2351 ext. 245.

Program Requirements:

- Academic Good Standing
- 90% Attendance the Semester prior to application
- Junior (11th) or Senior (12th)
- No Article I Code of Conduct Violations
- Completed Application
- Recommendations from four people, at least one must be outside of school
<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Youth Apprenticeship</th>
<th>State Certified Co-op</th>
<th>National Certification</th>
<th>Work Experience Employability Skills Certificate Program</th>
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</thead>
<tbody>
<tr>
<td>Paid/Unpaid</td>
<td>Paid Work Experience</td>
<td>Paid Work Experience</td>
<td>Paid Work Experience</td>
<td>Paid Work Experience</td>
</tr>
<tr>
<td>Related Classroom Instruction</td>
<td>State Required Competencies</td>
<td>State Required Competencies</td>
<td>National Required Competencies</td>
<td>State Required Employability Skills Local Competencies</td>
</tr>
<tr>
<td>Supervision</td>
<td>Youth Apprenticeship Coordinator</td>
<td>Vocationally Certified Teacher</td>
<td>Vocationally Certified Teacher</td>
<td>Vocationally Certified Teacher</td>
</tr>
<tr>
<td>Certificate</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>High School Credit</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Post-Secondary Credit</td>
<td>Possible</td>
<td>Possible</td>
<td>Possible</td>
<td>Possible</td>
</tr>
<tr>
<td>Required Number of Work Hours</td>
<td>450/900</td>
<td>480</td>
<td>400</td>
<td>480</td>
</tr>
<tr>
<td>Administered by</td>
<td>Dept. of Workforce Development</td>
<td>Dept. of Public Instruction</td>
<td>National Restaurant Association Foundation</td>
<td>Dept. of Public Instruction Local School District</td>
</tr>
<tr>
<td>Typical Time to Complete</td>
<td>1 or 2 years</td>
<td>1 year</td>
<td>2 years</td>
<td>1 or 2 years</td>
</tr>
<tr>
<td></td>
<td>(11th and/or 12th grade)</td>
<td>(11th or 12th grade)</td>
<td>(11th and 12th grade)</td>
<td>(11th and/or 12th grade)</td>
</tr>
<tr>
<td>Content Areas</td>
<td>-Financial</td>
<td>-Marketing</td>
<td>-ProStart Culinary</td>
<td>Must be enrolled in Business Seminar</td>
</tr>
<tr>
<td></td>
<td>-Health Services</td>
<td>-Entrepreneurship</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Hospitality, Lodging and Tourism</td>
<td>-Retail Marketing</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Drafting &amp; Design: Engineering</td>
<td>-Professional Selling</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mechanical</td>
<td>-Child Services</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Manufacturing: Machining</td>
<td>(Seniors Only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Welding</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Auto Technician</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
EARLY COLLEGE CREDIT PROGRAM (ECCP)  
START COLLEGE NOW (SCN)  

WORK BASED LEARNING COURSES OFFERED THROUGH WUHS

<table>
<thead>
<tr>
<th>COURSE</th>
<th>FRESHMEN</th>
<th>SOPHOMORE</th>
<th>JUNIOR</th>
<th>SENIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProStart Culinary</td>
<td></td>
<td>E</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>Asst. Childcare Teacher</td>
<td></td>
<td>E</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>Child Services Coop</td>
<td></td>
<td></td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>Business Seminar</td>
<td></td>
<td></td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>Business Work Experience Class</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nursing Asst. / Health Services YA</td>
<td></td>
<td>E</td>
<td>E</td>
<td></td>
</tr>
</tbody>
</table>

E = The year a student is eligible to enroll in the course

The Early College Credit Program (ECCP) and Start College Now (SCN) programs allow all public high school juniors and seniors who meet certain requirements to take post-secondary courses at a UW institution, a Wisconsin technical college or one of the state private, nonprofit institutions of higher education. Per DPI guidelines PI 40.07(2), Wis. Admin. Code, one semester credit offered by a postsecondary course is equivalent to ¼ high school credit. The program opens the door to greater learning opportunities for students who are considering a technical career, students wishing to begin college early, or students who want to prepare to enter the workforce immediately after high school graduation. Please see your School Counselor for information regarding ECCP and pick up an enrollment packet that will guide you through the application process. All information must be returned to your School Counselor by the following dates:

<table>
<thead>
<tr>
<th>SCHOOL YEAR</th>
<th>SEMESTER</th>
<th>DEADLINE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Next academic year</td>
<td>First</td>
<td>March 1</td>
</tr>
<tr>
<td>Current academic year</td>
<td>Second</td>
<td>October 1</td>
</tr>
</tbody>
</table>
WORK BASED LEARNING COURSES

PROSTART CULINARY WORK EXPERIENCE
Prerequisite: Culinary 1 ("B" Average in Food related classes)
Co-requisites: Food & Family Management and Worldwide Cuisine
Credit: Up to 2.0 Credits for working in a culinary setting
Grades: 11-12

The course is designed for those interested in pursuing careers in the Culinary and Hospitality Industry. Culinary I is the first step in completing the ProStart Program, and/or the Gateway Technical College Articulation. The ProStart program is implemented through the National Restaurant Association Education Foundation. It is a two year program. One credit is obtained from the classroom experience and an additional 1.0 credit each semester may be obtained from work experience. To receive the ProStart Certificate of Achievement, students must prove that they have completed 400 hours of PAID work experience in the foodservice industry.

BUSINESS WORK EXPERIENCE
Co-requisites: Business Seminar
Credit: Up to 2.0 Credits for working in a business setting
Grades: 11-12

Students will learn about careers, business practices, and how to conduct themselves in a professional and ethical manner. This program also combines in-school instruction with paid employment in an area business. Early release time is available. Students must achieve an Apprenticeship Certificate from the Department of Workforce Development, State Certified Co-op or Skills/Employability Certificate (21st Century Skills) from DPI in Madison or National Certification by completing this program to achieve work experience credit. One credit is obtained from the classroom experience and an additional 1.0 credit each semester may be obtained from work experience (credits are determined by the amount of hours worked – 240 hours per semester).

BUSINESS WORK EXPERIENCE-YEAR 2
Prerequisite: Business Seminar
Credit: 1.0 Credit per semester for working in a business
Grades: 12

Early release time is available. Students must achieve an Apprenticeship Certificate from the Department of Workforce Development, State Certified Co-op or Skills/Employability Certificate (21st Century Skills) from DPI in Madison or National Certification by completing this program to achieve credit. One credit each semester may be obtained from work experience (credits are determined by the amount of hours worked – 240 hours per semester).

NURSING ASSISTANT (N.A.) / HEALTH SERVICES APPRENTICESHIP
Prerequisite: An Early College Credit Program (ECCP) Application by March 1st
Credit: 0.75 for the ECCP class at Gateway Technical College plus up to an additional 1.0 Credit for working in a C.N.A. job
Grades: 11-12

This course is an introduction to nursing concepts. Content includes the nursing process as it relates to clients’ needs such as safety, asepsis and comfort. Theory is reinforced with concurrent simulated practice in lab and clinical health care setting. Students will be taught during the week at Gateway Technical College with a clinical site in a local nursing home. Students are responsible for their own transportation. If students work as a N.A. 1.0 additional credits can be obtained for work experience per semester if a student works 225 hours.
ASSISTANT CHILD CARE TEACHER
Prerequisite: Child Development, 17 years of age
Credit: 0.50
Grades: 11-12

Students will learn the skills needed to earn an assistant child care certification from the state of Wisconsin. They will plan and conduct educational experiences for preschool children. Throughout the semester, students are required to spend 12 hours in a child care center working with children.

CHILD SERVICES COOP
Prerequisite: ACCT & 17 years
Credits: 2.00
Grades: 12
Course Length 1 Year

The Child Services Coop is a program for seniors who are at least 17 years of age and who have adequately completed the Assistant Child Care Teacher (ACCT) Certification course. Students will earn a Child Care Teacher (CCT) certificate from the state of Wisconsin. Some competency areas covered in the course include: interpersonal skills, development of children, introduction to child care services, food, nutrition, health and safety among other needs of children. Students who satisfactorily complete the program and graduate from high school also qualify to receive the second-level Department of Health and Family Services (DHFS) employment description as a Child Care teacher. Throughout the year students are required to work 240 hours/semester in a Child Care/School setting and meet the attendance requirements.

ALTERNATIVE EDUCATION OPTIONS

S.A.N.D. 10-12 Program
Students Achieving New Directions

The S.A.N.D. 10-12 program targets sophomore, junior, and senior students who would benefit from extra academic support and/or are Credit deficient. Students are also scheduled in a guided intensive study hall (GIS) with a SAND instructor. During this resource time students receive support in their classes taken outside of the SAND program or work on Individual Credit Recovery (ICR) through the APEX curriculum. Please see your school counselor for more detailed information.

Trouvaille Academy

The Trouvaille Academy is an off-site academic program for students (10-12) who are not experiencing success in the traditional high school setting. Students enrolled in this program receive Wilmot Union High School curriculum, which includes direct and computer-based instruction (APEX). Final selection to the Trouvaille Academy is made by the Wilmot Union High School Student Services Committee.
The Panther Educational Assistants Programs are designed to offer juniors and seniors an opportunity to work closely with Faculty members, students, and other Wilmot Union High School personnel. Students participating in any of the programs are limited to participation in only one period of their school day and must be in addition to their 6th class. Also, in order to be eligible a student must do the following:

- Students must be on course to graduate with their graduating class
- Students must have 11 credits after their Sophomore year or 17 credits after their Junior year
- Students who fail any class at the end of the first, second, or third quarter, during the present school year, will be reviewed and possibly removed, from the Panther Educational Assistants Program
- Students must have passed all classes the previous semester.
- Students enrolled in the Panther Educational Assistance Program cannot have had any truancies, assigned to the STEP Room, or out of school suspensions during their present or previous semester
- All Panther Educational Assistants Program applications must be turned in within the first ten (10) days of each semester

**Peer Tutor**

Students can receive a \( \frac{1}{4} \) credit per semester for tutoring within an academic department. Enrollment into this program requires a teacher, school counselor, and department chair recommendation. Students who enroll in this program must display through previous coursework and/or via the teacher recommendation process that they will be able to work closely with students or small groups of students who need academic assistance. Department Tutors are assigned to a particular section and teacher to assist students within the course who need academic assistance. Students can be assigned, as Department Tutors, in lieu of a study hall or after-school to allow program success and flexibility.

**Office Assistant**

Students can receive a \( \frac{1}{4} \) credit per semester for serving as an office assistant in the District Office, Main Office, or the Student Services Office. Possible duties may include: office runners, filing, sorting, etc. Enrollment into this program requires secretary and Assistant Principal recommendation. Students can be assigned, as Office Assistants, in lieu of a study hall or after-school to allow program success and flexibility.

**Teacher Assistant**

Students can receive a \( \frac{1}{4} \) credit per semester as a teacher assistant. This program is designed for but, not limited to the following departments: P.E., Tech. and Engineering, Family and Consumer Education, Band, School Store (The Paw), or another lab based class. Teachers who utilize Teacher Assistants must identify exact duties students will fulfill daily. Teacher Assistants will assist in setting up, cleaning up, and provide assistance in the efficiency of a class or lab. Students can be assigned, as a Teacher Assistant, in lieu of a study hall or after-school to allow program success and flexibility.
Release of Student Information

Wilmot Union High School recognizes the following directory information, which may be released to individuals or organizations making legitimate requests, including military recruiters and institutes of higher education, unless a parent requests that such information not be released. Any parents who wish such information not be made public should complete an opt-out form and return it to the high school office:

- Student's Name
- Student's Address
- Parent or Guardian Name
- Parent or Guardian Address
- Parent Telephone Number
- Date of Birth
- Student's Gender
- Grade Level
- Dates of Attendance
- Honors and Awards Received
- Participation in School-Sponsored Activities, Organizations and Sports
- Previous School Attended
- Yearbook or ID Photo

Student Record Privacy Act

The Family Education Rights and Privacy Act (FERPA) of 1974 required that prior consent must be obtained from a parent or legal guardian of a pupil before any information may be disclosed by Wilmot Union High School to third parties. Exemptions to FERPA include:

- Requests from Wilmot Union High School faculty and staff with a legitimate need to know
- Requests in accordance with a lawful subpoena or court order
- Requests from officials of another school to which the student applied.
- Requests from persons or agencies specifically exempted by the Act.
- Requests for directory information described above
Academic and Career Planning, or ACP, is a student-driven, adult-supported process in which students create and cultivate their own unique and information-based visions for post-secondary success, obtained through self-exploration, career exploration, and the development of career management and planning skills.

**Mission**

Empower ALL students to travel the road to adulthood through education and training to careers!
CAREER PATHWAYS
The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

**Earning Only A High School Diploma**
On-The-Job Training and/or Minimal Work Experience

* Bee Keeper  * Crop Sprayer  * Fisherman  * Nursery Employee
* Stable Worker  * Landscape Laborer  * Pet Groomer  * Veterinary Hospital Employee
* Logger  * Pet Shop Employee

**Earning an Associate Degree or Post-High School Certification**
Community or Technical College, Apprenticeship, and/or Experience

* Arborist  * Farmer  * Golf Course Manager  * Genetic Technologist
* Animal Control  * Turf Manager  * Greenhouse Manager  * Veterinary Technician

**Earning a Bachelor, Professional or High Degree**
College and University Schooling

* Animal Scientist  * Geneticist  * Soil Scientist  * Food Scientist
* Game Warden  * Entomologist  * Biochemist  * Greenhouse Operator
* Marine Biologist  * Zoologist  * Veterinarian  * USDA Inspector
* Agricultural Economist, Educator, Engineer, Banker, Sales, or Communications

**Recommended Wilmot Courses**
(In addition to courses required for graduation)

- AP Biology
- American Law
- Sports Nutrition & Fitness
- AP Statistics
- Welding – MIG/TIG & Stick/OXY
- AP Economics
- AP Environmental Science
- Business Seminar
- Advanced Algebra
- Probability & Statistics
- AP Calculus – AB & BC
- Woodworking 1 & 2
- Horticulture
- Intro to Business
- Pre-Calculus
- General Metals
- Power Mechanics I & II
- Machining & Fabrication
- Spanish
- German
Careers in designing, planning, managing, building and maintaining the built environment.

**Earning Only A High School Diploma**
On-The-Job Training and/or Minimal Work Experience

- Construction Laborer
- Construction Assistant
- Fence Builder
- Highway Maintenance
- Heavy Equipment Operator
- Grading Machine Operator
- Tile Setter
- Roofer
- Groundskeeper

**Earning an Associate Degree or Post-High School Certification**
Community or Technical College, Apprenticeship, and/or Experience

- HVAC Technician
- Architectural Drafter
- Carpenter
- Drywall Installer
- Civil Engineering Technician
- Electrical Engineering Technician
- Plumber
- Electrician
- Pipefitter

**Earning a Bachelor, Professional or High Degree**
College and University schooling

- Architect
- Building Contractor
- C.A.D. Designer
- Civil Engineer
- Cost Estimator
- Electrical Engineer
- Grounds Supervisor
- Interior Design
- Landscape Architect

**Recommended Wilmot Courses**
(In addition to courses required for graduation)

- Drafting I & II
- Advanced Algebra
- AP Calculus
- AP Physics
- College Prep Writing
- Building Construction 1 & 2
- PLTW Engineering Pathways
- Powersports Mechanics
- Woods 1 & 2
- Chemistry
- Interior Design
- Spanish
- Power Mechanics I & II
- Cabinetry & Furniture Design
- General Metals
- Pre-Calculus
- Physics
- AP Statistics
- German
- Welding – MIG/TIG & Stick/OXY
Pathways in this Cluster

- Audio Visual Technology & Film
- Printing Technology
- Telecommunications
- Performing Arts
- Journalism & Broadcasting
- Visual Arts

Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services

**Earning Only A High School Diploma**
On-The-Job Training and/or Minimal Work Experience

*Floral Designer*  
*Food Stylist*  
*Musician*

*Proofreader*  
*Sign Designer/Painter*  
*Stained Glass*  
*Photographer*  
*Pre-Press*

**Earning an Associate Degree or Post-High School Certification**
Community or Technical College, Apprenticeship, and/or Experience

*Animator*  
*Recording Technician*

*Sign Painter*  
*Taxidermist*  
*Potter*  
*Graphic Designer*  
*Broadcast Technician*

**Earning a Bachelor, Professional or High Degree**
College and University Schooling

*Animator*  
*Cinematographer*  
*Composer*

*Illustrator*  
*Architect*  
*Art/Music Teacher*  
*Artist*  
*Musician*  
*Photographer*

*Videographer*  
*Journalist*  
*AV Designer & Engineer*

**Recommended Wilmot Courses**
(In addition to Courses Required for Graduation)

<table>
<thead>
<tr>
<th>Computer Graphics</th>
<th>Digital Photography</th>
<th>Art I/II</th>
<th>AP Studio Art</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology</td>
<td>Digital Productions</td>
<td>Desktop Design</td>
<td>Journalism I &amp; II</td>
</tr>
<tr>
<td>Marketing Principles 1 &amp; 2</td>
<td>Interior Design</td>
<td>AP Art History</td>
<td>AP Language &amp; Composition</td>
</tr>
<tr>
<td>AP Literature &amp; Composition</td>
<td>AP Studio Art</td>
<td>Various Music Courses</td>
<td>iDesign</td>
</tr>
<tr>
<td>AP Studio Art</td>
<td>Spanish</td>
<td>German</td>
<td>Theater Tech</td>
</tr>
<tr>
<td>AP Psychology</td>
<td>Intro to Networking/ Web Concepts</td>
<td></td>
<td>AP Music Theory</td>
</tr>
<tr>
<td>Building Construction 1 &amp; 2</td>
<td>Civil Engineering &amp; Architecture</td>
<td></td>
<td>Drafting 1 &amp; 2</td>
</tr>
</tbody>
</table>
Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.

**Earning Only A High School Diploma**
On-The-Job Training and/or Minimal Work Experience

- *Bank Teller*
- *Caterer*
- *Hospital Admitting*
- *Sales Clerk*
- *File Clerk*
- *Meter Reader*
- *Billing, Cost & Rate Clerk*
- *Human Resource Clerk*
- *Data Entry Clerk*
- *Typist*
- *Hotel Clerk*
- *Receptionist*

**Earning an Associate Degree or Post-High School Certification**
Community or Technical College, Apprenticeship, and/or Experience

- *Accountant*
- *Administrative Assistant*
- *Retails Sales Supervisor*
- *Tax Preparer*
- *Stenographer*
- *Industrial Clerk*
- *Small Business Owner*
- *Word Processor*
- *Management Trainee*
- *Court Reporter*
- *Kennel Owner*
- *Funeral Director*

**Earning a Bachelor, Professional or High Degree**
College and University Schooling

- *Accountant-CPA*
- *E-Commerce Analyst*
- *Human Resource Manager*
- *Art Director*
- *Facilities Manager*
- *Sales Representative*
- *Marketing Manager*
- *Musician’s Agent*
- *Personnel Recruiter*
- *Event Planner*
- *Consultant*
- *Auditor*

**Recommended Wilmot Courses**
(In addition to courses required for graduation)

- Introduction to Business
- Pre-Calculus
- Psychology
- Business Seminar
- Civil Engineering & Architecture
- Leadership & Development
- Marketing
- AP Calculus
- College Prep Writing
- Business Law
- Public Speaking
- Building Construction 1 & 2
- Advanced Marketing
- AP Statistics
- Sociology
- Trigonometry
- Small Business Accounting I & II
- Advanced Algebra
- World Languages
- AP Economics
- Advanced Accounting
Planning, managing and providing education and training services, and related learning support services.

**Pathways in this Cluster**
- Administration & Administrative Support
- Professional Support Services
- Teaching/ Training

---

**Earning Only A High School Diploma**
On-The-Job Training and/or Minimal Work Experience

- *Aerobics Instructor*
- *Child Care Assistant*
- *Dance Teacher*
- *Library Assistant*
- *Self Enrichment Teacher*

**Earning an Associate Degree or Post-High School Certification**
Community or Technical College, Apprenticeship, and/or Experience

- *Computer Installation & Demonstration*
- *Pre-School Teacher*
- *Library Technician*
- *Sign Language Instructor*
- *Teacher Assistant*
- *Pre-School Teacher*

**Earning a Bachelor, Professional or High Degree**
College and University Schooling

- *Music Therapist*
- *Bilingual Educator*
- *Educational Administrator*
- *Instructional Coordinator*
- *Kindergarten Teacher*
- *Music Teacher*
- *School Psychologist*
- *Secondary School Teacher*
- *Teacher of the Blind*
- *Career & Technical Education Teacher*
- *Librarian*
- *Speech-Language Pathologist*
- *School Counselor*
- *University Professor*
- *Training Program Manager*
- *Elementary School Teacher*
- *Special Education Teacher*
- *Adult Literacy Teacher*

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**Recommended Wilmot Courses**
(In addition to courses required for graduation)

- Child Development
- Advanced Algebra
- Marketing Principles 1 & 2
- Intro to Business
- AP Literature & Composition
- Current Trends and Issues in Education
- Teaching Practicum and Effective Teaching Practices
- Introduction to Special Education (PIE)

- AP Psychology
- Psychology
- German
- Spanish
- Childcare Teacher Skills Co-op
- Developmental Psychology (PIE)
- Pre-Calculus & Analytic Geometry
- Relationships
- Sociology
- AP Language & Composition
- AP World History
- Introduction to Special Education
Planning, services for financial and investment planning, banking, insurance, and business financial management.

**Earning Only A High School Diploma**  
On-The-Job Training and/or Minimal Work Experience

*Bill & Account Collector  
 Brokerage Clerk  
 Cashier

**Earning an Associate Degree or Post-High School Certification**  
Community or Technical College, Apprenticeship, and/or Experience

*Accountant  
 Insurance Agent  
 Financial Institution Manager  
 Personal Property Appraiser  
 Loan Officer  
 Claims Adjuster  
 Brokerage Clerk  
 Investigator & Adjustor

**Earning a Bachelor, Professional or High Degree**  
College and University Schooling

*Accountant, CPA  
 Auditor  
 Insurance Underwriter  
 Controller  
 Credit Card Operation Manager  
 Credit Analyst  
 Financial Advisor  
 Music Store Accountant  
 Real Estate Appraiser  
 Manager  
 Brokerage Clerk  
 Actuary  
 Business & Industry Consultant  
 School District Business Administrator  
 Economist  
 Investment Advisor  
 Stockbroker

**Recommended Wilmot Courses**  
(In addition to courses required for graduation)

<table>
<thead>
<tr>
<th>Introduction to Business</th>
<th>Advanced Accounting</th>
<th>Marketing Principles 1 &amp; 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>German</td>
<td>Spanish</td>
<td>Small Business Accounting I &amp; II</td>
</tr>
<tr>
<td>Psychology</td>
<td>Computers for Professionals</td>
<td>Business Law</td>
</tr>
<tr>
<td>AP Economics</td>
<td>AP Literature &amp; Composition</td>
<td>AP Calculus</td>
</tr>
<tr>
<td>AP Statistics</td>
<td>AP Language &amp; Composition</td>
<td>Sociology</td>
</tr>
<tr>
<td>Microsoft Excel &amp; Access</td>
<td>Pre-Calculus</td>
<td>Algebra 2</td>
</tr>
<tr>
<td>AP Psychology</td>
<td>Leadership &amp; Development</td>
<td>Business Management &amp; Entre.</td>
</tr>
</tbody>
</table>
Pathways in this Cluster

- Governance
- National Security
- Foreign Service Planning
- Revenue & Tax Regulation
- Public Management

Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.

**Earning Only A High School Diploma**

On-The-Job Training and/or Minimal Work Experience

* Mail Carrier  
* Postal Clerk  
* Driver's License Examiner  
* Mail Handling Machine Operator  
* License Clerk  
* Infantry Forces

**Earning an Associate Degree or Post-High School Certification**

Community or Technical College, Apprenticeship, and/or Experience

* Coroner  
* Accountant  
* Title Examiner  
* Infantry Forces  
* Transportation Inspector  
* Building Inspector  
* City Planning Aide  
* Postmaster

**Earning a Bachelor, Professional or High Degree**

College and University Schooling

* Accountant  
* Urban Planner  
* City Manager  
* Emergency Management Specialist  
* Equal Opportunity Specialist  
* Apprenticeship Consultant  
* Public Utilities Manager  
* Special Operations Officer  
* Aviation Security Specialist  
* Political Scientist  
* Infantry Officer  
* Lawyer  
* Legislator  
* Occupational Health & Safety Specialist

**Recommended Wilmot Courses**

(In addition to courses required for graduation)

<table>
<thead>
<tr>
<th>AP US History</th>
<th>AP Statistics</th>
<th>AP Economics</th>
<th>Business Law</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Law</td>
<td>Advanced Accounting</td>
<td>Physics</td>
<td>Algebra 2</td>
</tr>
<tr>
<td>Marketing</td>
<td>Psychology</td>
<td>German</td>
<td>Spanish</td>
</tr>
<tr>
<td>Public Speaking</td>
<td>AP World History</td>
<td>Microsoft Excel &amp; Access</td>
<td>AP Psychology</td>
</tr>
<tr>
<td>Pre-Calculus &amp; Analytic Geometry</td>
<td>Computer for Professionals</td>
<td>Small Business Accounting I &amp; II</td>
<td></td>
</tr>
<tr>
<td>Building Construction 1 &amp; 2</td>
<td></td>
<td>AP Language &amp; Composition</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cabinetry &amp; Furniture Design</td>
<td></td>
</tr>
</tbody>
</table>
Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

**Pathways in this Cluster**
- Therapeutic Services
- Diagnostic Services
- Biotechnology Research & Development
- Health Informatics
- Support Services

**Earning Only A High School Diploma**
On-The-Job Training and/or Minimal Work Experience
- *Certified Nursing Assistant*
- *Food Service Worker*
- *Hospital Admitting Clerk*
- *Home Health Aide*

**Earning an Associate Degree or Post-High School Certification**
Community or Technical College, Apprenticeship, and/or Experience
- *EMT / Paramedic*
- *Home Health Aide*
- *Dialysis Technician*
- *Radiology Technician*
- *Medical Assistant*
- *Translator and Interpreter*
- *Physical Therapy Aide*
- *Dental Hygienist*
- *Dental Assistant*
- *Massage Therapist*
- *Occupational Therapy Assistant*
- *Registered Nurse*
- *Surgical Technician*
- *Ultrasound Technician*

**Earning a Bachelor, Professional or High Degree**
College and University Schooling
- *Athletic Trainer*
- *Chiropractor*
- *Dentist*
- *Dietician*
- *Primary Care Physician*
- *Occupational Therapist*
- *Music Therapist*
- *Pharmacist*
- *Nurse Practitioner*
- *Speech Pathologist*
- *Psychiatrist*
- *Surgeon*
- *Geneticist*
- *Hemotherapist*
- *Veterinarian*
- *Podiatrist*
- *Oral Surgeon*
- *Registered Nurse*
- *Biochemist*
- *Research Scientist*

**Recommended Wilmot Courses**
(In addition to courses required for graduation)

- Medical Terminology
- Chemistry
- Advanced Algebra
- German
- Child Development
- Physics
- Health Occupations
- Spanish
- Anatomy & Physiology
- Pre-Calculus & Analytic Geometry
- AP Psychology
- AP Physics
- Developmental Psychology
- Certified Nursing Assistant
- Psychology
- AP Biology
- AP Calculus
- AP Statistics
- Spanish for Healthcare
- Introduction to Special Education Computers for Professionals
- PLTW Biomedical Pathway (4 courses)
Pathways in this Cluster
- Restaurant and Food/Beverage Services
- Recreation, Amusement & Attractions
- Lodging
- Travel & Tourism

Hospitality and tourism encompass the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.

Earning Only A High School Diploma
On-The-Job Training and/or Minimal Work Experience

* Janitor  * Hotel Clerk  * Fast Food Employee  * Waiter / Waitress
* Bartender  * Concierge  * Housekeeper  * Outdoor Guide
* Bellhop  * Short Order Cook  * Tour Guide  * Food Attendant

Earning an Associate Degree or Post-High School Certification
Community or Technical College, Apprenticeship, and/or Experience

* Chef  * Event Planner  * Hotel Manager  * Conference Planner
* Travel Agent  * Wedding Planner  * Club Management  * Restaurant Management
* Translator  * Caterer  * Recreation Director  * Household Management

Earning a Bachelor, Professional or High Degree
College and University Schooling

* Archivist  * Historian  * Resort Manager  * Coach
* Curator  * Zookeeper  * Musicians Agent  * Brew master
* Zoologist  * Park Ranger  * Theatre Manager

Recommended Wilmot Courses
(In addition to courses required for graduation)

Foods & Family  Advanced Foods  Culinary Arts I/II  Chemistry
Physics  AP Economics  Business Law  Algebra 2
Pre-Calculus  AP Psychology  AP Statistics  AP Calculus
Spanish  German  Worldwide Cuisine  Baking
Psychology  Business Seminar  AP World History  Sports Nutrition & Fitness
Business Work Experience
Preventing and developing in career pathways that relate to families and human needs.

**Earning Only A High School Diploma**

On-The-Job Training and/or Minimal Work Experience

- *Aerobics Instructor*
- *Crossing Guard*
- *Household Cook*
- *Tattoo Artist*
- *Nanny*
- *Home Care Worker*
- *Homemaker*
- *Housekeeper*

**Earning an Associate Degree or Post-High School Certification**

Community or Technical College, Apprenticeship, and/or Experience

- *Community Worker*
- *Cosmetologist*
- *Dry Cleaner*
- *Funeral Director*
- *Image Consultant*
- *Massage Therapist*
- *Nail Technician*
- *Pet Groomer*

**Earning a Bachelor, Professional or High Degree**

College and University schooling

- *Addictions Counselor*
- *Career Counselor*
- *Clergy*
- *Dietician*
- *Music Therapist*
- *School Counselor*
- *Social Worker*
- *Optician*
- *Financial Counselor*
- *Gerontologist*

**Recommended Wilmot Courses**

(In addition to courses required for graduation)

- Various Music Courses
- Spanish
- Psychology
- Child Development
- Woodworking I
- AP Psychology
- German
- Chemistry
- Into to Special Education
- Sports Nutrition & Fitness
- AP Biology
- Anatomy & Physiology
- AP Literature & Composition
- AP Statistics

Pathways in this Cluster
- Network Systems
- Information Support & Services
- Web & Digital Communications
- Programming & Software Development

Earning Only A High School Diploma
On-The-Job Training and/or Minimal Work Experience
Careers in this field require more than minimal experience or on-the-job training

Earning an Associate Degree or Post-High School Certification
Community or Technical College, Apprenticeship, and/or Experience

*Computer Support Specialist
*Sound Manager

*Computer System Analyst
*Tool Programmer

*Recorder Engineer
*Webmaster

Earning a Bachelor, Professional or High Degree
College and University Schooling

*Animator
*Video Game Designer
*Computer Security Specialist
*Scientific & Engineering Programmer

*Computer Engineer
*Database Administrator
*Software Engineer
*Illustrator

*Software Engineer
*Computer Programmer
*Information Scientist
*Webmaster

Recommended Wilmot Courses
(In addition to courses required for graduation)

Computer Graphics       Drafting 1 & 2       Psychology       Desktop Design
Spanish                  German            IT Essentials     AP Psychology
AP Art History           AP Calculus       Digital Productions Marketing Principles 1 & 2
Advanced Computer Graphics
Pre-Calculus & Analytic Geometry
PLTW Intro to Computer Science
Computers for Professionals
PLTW Computer Science A

41
Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

**Pathways in this Cluster**
- Correction Services
- Emergency & Fire Management Services
- Security & Protective Services
- Law Enforcement Services
- Legal Services

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**Earning Only A High School Diploma**
On-The-Job Training and/or Minimal Work Experience

- *Lifeguard*
- *Gunsmith*
- *Security Guard*
- *Locksmith*
- *Dispatcher*
- *Bailiff*

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**Earning an Associate Degree or Post-High School Certification**
Community or Technical College, Apprenticeship, and/or Experience

- *Building Inspector*
- *Court Reporter*
- *Police Officer*
- *Coast Guard*
- *Legal Secretary*
- *Private Investigator*
- *Conservation Officer*
- *Park Warden*

---

**Earning a Bachelor, Professional or High Degree**
College and University Schooling

- *Civil Litigator*
- *Criminologist*
- *Judge*
- *Probation/Parole Officer*
- *Coroner*
- *Federal Agent*
- *Lawyer*
- *Translator*
- *Criminal Lawyer*
- *Forensic Scientist*
- *Sociologist*
- *Paralegal*

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**Recommended Wilmot Courses**
(In addition to courses required for graduation)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Subject</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Psychology</td>
<td>Business Law</td>
<td>Forensic Science</td>
</tr>
<tr>
<td>Physics</td>
<td>Computers for Professionals</td>
<td>Spanish</td>
</tr>
<tr>
<td>AP Economics</td>
<td>German</td>
<td>Psychology</td>
</tr>
<tr>
<td>AP Language &amp; Composition</td>
<td>AP US History</td>
<td>American Law</td>
</tr>
<tr>
<td>AP Literature &amp; Composition</td>
<td>AP Psychology</td>
<td>Sociology</td>
</tr>
<tr>
<td>Building Construction 1 &amp; 2</td>
<td>Cabinetry &amp; Furniture Design</td>
<td></td>
</tr>
</tbody>
</table>
Pathways in this Cluster

- Production
- Manufacturing Production Process
- Development
- Health, Safety & Environmental Assurance
- Logistics & Inventory Control
- Maintenance Installation & Repair

Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

**Earning Only A High School Diploma**
On-The-Job Training and/or Minimal Work Experience

* Assemblers
* Painter
* Engraver
* Upholsterer
* Machine Operator
* Production Wood Worker
* Cable Installer
* Welder
* Foundry Worker

**Earning an Associate Degree or Post-High School Certification**
Community or Technical College, Apprenticeship, and/or Experience

* Industrial Machinery Mechanic
* Electrician
* HVAC Technician
* Millwright
* Pipefitter
* Plumber
* Manufacturing Technician
* Welder
* Quality Controller

**Earning a Bachelor, Professional or High Degree**
College and University Schooling

* Design Engineer
* Quality Control Engineer
* Health & Safety Engineer
* Labor Relations Manager
* Operations Manager
* Logistician
* Industrial Engineer

**Recommended Wilmot Courses**
(In addition to courses required for graduation)

- Woodworking 1 & 2
- Cabinetry & Furniture Design
- Machining/Fabrication
- Spanish
- PLTW Engineering Pathway
- General Metals
- Power Mechanics I & II
- Building Construction
- German
- Advanced Metals
- Welding MIG/TIG & Stick/OXY
- Business Law
- Introduction to Engineering Design
Pathways in this Cluster

- Management & entrepreneurship
- Professional Sales & Marketing
- Marketing Information Management & Research
- Marketing Communication & Promotion
- Distribution & Logistics
- Buying & Merchandising
- E-Marketing

Planning, managing, and performing marketing activities to reach organization objectives.

Earning Only A High School Diploma

On-The-Job Training and/or Minimal Work Experience

*Retail Salesperson  *Telemarketer  *Cashier
*Travel Agent      *Fashion Retailer  *Auto Salesperson
*Antique Dealer    *Sign Maker      *Customer Service Representative

Earning an Associate Degree or Post-High School Certification

Community or Technical College, Apprenticeship, and/or Experience

*Account Representative  *Agent  *Desktop Publisher
*Importer/Exporter       *Media Buyer  *Mortgage Broker
*Real Estate Agent       *Web Technician  *Webmaster

Earning a Bachelor, Professional or High Degree

College and University Schooling

*Appraiser  *Logistic Specialist  *Market Researcher
*Association Manager  *Marketing Specialist  *Advertising Copywriter
*Sales Representative  *Sports Marketing  *Website Designer

Recommended Wilmot Courses

(In addition to courses required for graduation)

- Introduction to Business
- Marketing Principles 1 & 2
- Business Law
- Computer Graphics
- AP Calculus
- Consumer Auto
- Desktop Design
- Computers for Professionals
- German
- AP Psychology
- Business Law
- Digital Productions
- AP Statistics
- Pre-Calculus
- Business Management & Entrepreneurship
- Psychology
- Spanish
- Small Business Accounting I & II
- AP Economics
- Advanced Accounting
- iDesign
- Building Construction 1 & 2
Pathways in this Cluster

- Engineering & Technology
- Science & Math

Planning, managing and providing scientific research and professional and technical services including laboratory and testing services, and research and development services.

**Earning Only A High School Diploma**

*On-The-Job Training and/or Minimal Work Experience*

*Appliance Repair  *Electronics Repair  *Taxidermist
*Medical Transcriptionist  *Statistical Clerk  *Machine Repair

**Earning an Associate Degree or Post-High School Certification**

*Community or Technical College, Apprenticeship, and/or Experience*

*Biological Technician  *Chemical Technician  *Veterinary Technician
*Civil Engineering Technician  *Nuclear Technician  *Petroleum Technician
*Mathematical Technician  *Mechanical Engineering Technician
*Industrial Engineering Technician

**Earning a Bachelor, Professional or High Degree**

*College and University Schooling*

*Biomedical Engineer  *Civil Engineer  *Mechanical Engineer
*Physicist  *Mathematician  *Geologist
*Statistician  *Nuclear Engineer  *Math or Science Teacher

**Recommended Wilmot Courses**

(In addition to courses required for graduation)

- Biology
- Spanish
- German
- Welding MIG/TIG & Stick/OXY
- Woodworking I & II
- Physics
- Chemistry
- Drafting /AutoCAD I & II
- General Metals
- Forensic Science
- Pre-Calculus
- Power Mechanics I & II
- Machining & Fabrication
- AP Calculus
- Advanced Drafting/AutoCAD
- Architectural AutoCAD
- AP Biology
- AP Physics
- AP Statistics
- Building & Construction I & 2
- AP Chemistry
- PLTW Biomedical Sciences Pathway
- PLTW Engineering Pathway
- PLTW Computer Science Engineering Pathway
Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

**Earning Only A High School Diploma**

On-The-Job Training and/or Minimal Work Experience

- *Bus Driver*
- *Ticket Clerk*
- *Light Truck Driver*
- *Delivery Driver*
- *Deckhand*
- *Shipping Clerk*
- *Highway Worker*
- *Cab Driver*
- *Traffic Clerk*

**Earning an Associate Degree or Post-High School Certification**

Community or Technical College, Apprenticeship, and/or Experience

- *Aircraft Mechanic*
- *Cartographic Technician*
- *Flight Attendant*
- *Auto Body Technician*
- *Diesel Technician*
- *Security Consultant*
- *Automobile Painter*
- *Travel Agent*

**Earning a Bachelor, Professional or High Degree**

College and University Schooling

- *Industrial & Packaging Engineer*
- *Mechanical Engineer*
- *Urban & Regional Planner*
- *Operations Analyst*
- *Air Traffic Controller*
- *Customs Broker*
- *Public Health Sanitarian*
- *Astronaut*
- *Airline Pilot*
- *Facility Engineer*

**Recommended Wilmot Courses**

(In addition to courses required for graduation)

- Woodworking 1 & 2
- Auto Technology I & II
- Machining/Fabrication
- Business Law
- Introduction to Business
- Power Mechanics I & II
- German
- Technical Math
- Probability & Statistics
- Marketing Principles 1 & 2
- Spanish
- General Metals
- Welding/MIG/TIG & Stick OXY
- Physics
- PLTW Engineering Pathways
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ART102</td>
<td>Art I</td>
<td>E</td>
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<tr>
<td>ART201</td>
<td>Art II</td>
<td>E</td>
</tr>
<tr>
<td>ART202</td>
<td>Computer Graphics</td>
<td>E</td>
</tr>
<tr>
<td>ART203</td>
<td>Beginning Ceramics</td>
<td>E</td>
</tr>
<tr>
<td>ART303</td>
<td>Ceramics II</td>
<td>E</td>
</tr>
<tr>
<td>ART404</td>
<td>Visual Literacy &amp; Technology</td>
<td>E</td>
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</tbody>
</table>

**FRESHMAN YEAR**

*R = Required course at indicated grade level  
*E = Elective course at indicated grade level
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year</th>
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<tbody>
<tr>
<td>ART102</td>
<td>Art I (E)</td>
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<tr>
<td>ART201</td>
<td>Art II (E)</td>
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<tr>
<td>ART202</td>
<td>Computer Graphics (E)</td>
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<tr>
<td>ART203</td>
<td>Beginning Ceramics (E)</td>
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<td>ART301</td>
<td>Drawing &amp; Painting (E)</td>
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<tr>
<td>ART302</td>
<td>Advanced Computer Graphics (E)</td>
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<tr>
<td>ART303</td>
<td>Ceramics II (E)</td>
<td></td>
</tr>
<tr>
<td>ART305</td>
<td>Sculpture &amp; Jewelry (E)</td>
<td></td>
</tr>
<tr>
<td>ART401</td>
<td>Advanced Drawing &amp; Painting (E)</td>
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<td>ART404</td>
<td>Visual Literacy &amp; Technology (E)</td>
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<tr>
<td>ART504</td>
<td>AP 3-D Studio Art (E)</td>
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<tr>
<td>ART103</td>
<td>Digital Photography (E)</td>
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<tr>
<td>ART304</td>
<td>Portfolio I (E)</td>
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<tr>
<td>ART403</td>
<td>Portfolio II (E)</td>
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<tr>
<td>ART501</td>
<td>AP Studio Art (E)</td>
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</tr>
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</table>

**SOPHOMORE YEAR**

**JUNIOR YEAR**

**SENIOR YEAR**

*R* - Required course at indicated grade level  
*E* - Elective course at indicated grade level
ART102 – Art I
Credits: 1.00
Grades: 9-12

This is an introductory level studio art course, designed for students with all artistic ability levels and skills. Students will explore various materials, techniques, concepts, and processes essential to understanding the visual arts and the role of the artist. Students will work on individual projects and studio studies to develop basic drawing and painting skills, to understand design concepts, and further develop hand-eye coordination and fine-motor skills. The art assignments are designed to enhance and nourish such skills as creative problem solving and critical thinking, while developing the student’s individual style. Students will demonstrate their ability to respond, to analyze, and to interpret their own artwork and the work of others through discussions and critiques.

ART103 – Digital Photography
Credits: 0.50
Grades: 11-12

In this course students will explore digital photography in relation to fine art. Students must provide their own digital camera; they may not use a cell phone to take pictures. Students will create photographic art work to better understand electronic media as it pertains to art and art making. Emphasis will be placed on pre-visualization, planning, and problem-solving. The students’ development as a photographer will improve while they create photographic images as expressive and thoughtful works of art. Students will competently use the technologies necessary for the production of their images, as well as learning about the visual arts.

ART201 – Art II
Credits: 1.00
Grades: 9-12
Prerequisites: ART102 – Art I

This course is designed to provide students with an opportunity to experiment with a variety of art media, techniques, and processes. Each art assignment is carefully designed to help students find their own artistic preferences by trying out mixed media, collages, oil pastels, and various printing and painting techniques. Special attention is stressed on craftsmanship and process’ application. By the end of the course students will form their own individual artistic style, understand the design process, and create a portfolio that will demonstrate their artistic growth.

ART202 – Computer Graphics
Credits: 0.50
Grades: 9-12
Prerequisites: ART102 – Art I or concurrently

This course is designed to provide an opportunity for students to explore the possibilities of using technology in a contemporary art and design field and learn to enhance and manipulate photographs. Students will receive basic training in software and peripherals with which professional digital artists and designers must be familiar: Adobe Photoshop, Adobe Illustrator, and Adobe InDesign. Students will learn the design process which can be applied in any field of post-secondary study. Any student considering an art and design career will find this course extremely valuable.

ART203 – Beginning Ceramics
Credits: 0.50
Grades: 9-12
Prerequisites: ART102 – Art I

This class will introduce students to the beauty of ceramics. We will focus on three hand-building techniques, pinch methods, coil processes, and slab methods. Students will create functional and decorative clay pieces while learning various ways to form and manipulate clay. A variety of glazing and decoration techniques will be introduced as well. Students will be able to independently create pieces... beginning with a sketched idea, and culminating in a finished product.

ART301 – Drawing and Painting
Credits: 0.50
Grades: 10-12
Prerequisites: ART201 – Art II

This course is intended to enhance student's abilities in drawing and painting through experimentation in a variety of media. Students will be encouraged to develop their own personal creative vision, while working on refining their artistic skills through traditional studies. Students' experience will include some of the following: pencil, marker, pen and ink, chalk pastels, oil pastels, charcoals, scratchboards, watercolors, acrylics, tempera, and mixed media. The
class setting is similar to an art college studio class. All advanced art students are welcome! It is recommended to take Drawing & Painting, along with Advanced Drawing & Painting prior to enrolling in AP Studio.

**ART302 – Advanced Computer Graphics**  
Credits: 1.00  
Grades: 10-12  
Prerequisites: ART202 – Computer Graphics

This is a full year course for students, who are interested in improving their artistic and design skills. In addition to working with Adobe software (PhotoShop, Illustrator, InDesign, Flash, etc.), students will develop strong visual skills, learn the beauty of typography, understand the process of publishing, product development, and web design. Templates and pre-made designs will not be used in this class. All the above skills can be applied to a future career as a graphic artist/designer, and are very desired by employers in any career field.

**ART303 – Ceramics II**  
Credits: 0.50  
Grades: 9-12  
Prerequisites: ART203 – Beginning Ceramics

Ceramics II is a continuation of Beginning Ceramics with additional emphasis placed on skills, individual styles, and experimentation. Students will master their skills in hand-building techniques and experience other forms of working with clay - potter’s wheel, sculpture, etc. Students will learn additional decorating techniques for their artwork, including underglaze painting, sgraffito, special effect glazing, etc.

**ART304 – Portfolio I**  
Credits: 0.50  
Grades: 11-12  
Prerequisites: ART201 – Art II

This course focuses on the creation and preparation of artwork, electronic portfolio development, and experimenting in various processes. Through their portfolio development process, students will gain an understanding of their own personal artistic vision, and an overall view of the fine arts. Students will delve more deeply into a particular aspect of art, and will formulate their own interests and goals, as well as work independently to completion. Students will have the opportunity to create a competition/presentation portfolio to use for post-secondary school applications and admissions.

**ART305 – Sculpture and Jewelry**  
Credits: 0.50  
Grades: 10-12  
Prerequisites: ART102 – Art I

This is a course for students who want to learn to create three-dimensional artwork. Students will have an opportunity to create sculptures, reliefs, jewelry pieces, and collages. Each project will focus on a specific media, giving students a chance to work in many art forms, most of which they haven’t tried yet.

**ART401 – Advanced Drawing and Painting**  
Credits: 0.50  
Grades: 10-12  
Prerequisites: ART301 – Drawing and Painting

This course is intended to further enhance student’s abilities in drawing and painting through experimentation in a variety of media. Students will be given more freedom in their choices of subject matter and materials. Students will create artwork that can be added to their portfolio. Focus of the class is to promote critical thinking in addition to refining their skills. It is recommended to take Drawing & Painting, along with Advanced Drawing & Painting prior to enrolling in AP Studio. Credits: 0.50

**ART403 – Portfolio II**  
Continuation of Portfolio I.  
Credits: 0.50  
Grades: 11-12  
Prerequisites: ART304 – Portfolio I

This course focuses on the creation and preparation of artwork, electronic portfolio development, and experimenting in various processes. Through their portfolio development process, students will gain an understanding of their own personal artistic vision, and an overall view of the fine arts. Students will delve more deeply into a particular aspect of art, and will formulate their own interests and goals, as well as work independently to completion. Students will have the opportunity to create a competition/presentation portfolio to use for post-secondary school applications and admissions.
**ART404 – Visual Literacy and Technology**
Credits: 1.00
Grades: 9-12
Prerequisites: None

This career-oriented class is an introduction to graphic design and desktop publishing. It is suitable for all artistic skill levels. Special emphasis will be given to commercial design, production, and basic composition and technology concepts. No prior art experience is required for this class - students will learn Art Theory through assignments and projects that will help them develop the necessary visual skills. No templates will be used in this class for students’ design assignments - instead, starting from scratch and developing their own designs, choosing color schemes, producing finished products from a thumbnail to a finished design - all of it will give students a strong foundation for creating and appreciating art.

**ART501 – AP Studio Art**
Credits: 1.00
Grades: 11-12
Prerequisites: ART201 – Art II
Laude Points: 2
College Credit: AP

This course is intended for the serious art student. Students should be aware that AP work involves significantly more commitment and accomplishment than the typical high school class. Students will need to produce work outside of the classroom, as well as in it, and beyond scheduled class periods. All works created in this course should be high-quality, finished pieces, with an overall appearance of refined technique and solid application of skills. Students will show a range of ideas and approaches to art making, and a sustained, deep, and multi-perspective investigation of a topic. Students’ work is informed and guided by observation, research, experimentation, discussion, critical analysis, and reflection. Students will document their artistic ideas and practices to demonstrate conceptual and technical development over time.
### Business & Information Technologies

#### Department Course Offerings (Freshman Year)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>BIT101</td>
<td>Introduction to Business</td>
<td>(E)</td>
</tr>
<tr>
<td>BIT121</td>
<td>Computers for Professionals</td>
<td>(E)</td>
</tr>
<tr>
<td>BIT182</td>
<td>Introduction to Networking/Web Concepts</td>
<td>(E)</td>
</tr>
<tr>
<td>BIT205</td>
<td>Principles of Hospitality</td>
<td>(E)</td>
</tr>
<tr>
<td>BIT222</td>
<td>Digital Productions</td>
<td>(E)</td>
</tr>
<tr>
<td>BIT224</td>
<td>Desktop Design</td>
<td>(E)</td>
</tr>
<tr>
<td>BIT232</td>
<td>IT Essentials</td>
<td>(E)</td>
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<tr>
<td>BIT233</td>
<td>Computer Science Essentials (PLTW)</td>
<td>(E)</td>
</tr>
</tbody>
</table>

**Freshman Year**

*R* = Required course at indicated grade level  
**E** = Elective course at indicated grade level
### BUSINESS & INFORMATION TECHNOLOGIES

**Department Course Offerings** (Sophomore – Senior Year)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Grade Level</th>
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<tbody>
<tr>
<td>BIT101</td>
<td>Introduction to Business</td>
<td>E</td>
</tr>
<tr>
<td>BIT121</td>
<td>Computers for Professionals</td>
<td>E</td>
</tr>
<tr>
<td>BIT132</td>
<td>Introduction to Networking/Web Concepts</td>
<td>E</td>
</tr>
<tr>
<td>BIT201</td>
<td>Marketing Principles I</td>
<td>E</td>
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<tr>
<td>BIT202</td>
<td>Small Business Accounting I</td>
<td>E</td>
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<tr>
<td>BIT203</td>
<td>Business Law</td>
<td>E</td>
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<td>BIT204</td>
<td>Leadership &amp; Development</td>
<td>E</td>
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<tr>
<td>BIT205</td>
<td>Principles of Hospitality</td>
<td>E</td>
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<tr>
<td>BIT206</td>
<td>Introduction to Service</td>
<td>E</td>
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<tr>
<td>BIT207</td>
<td>Managing Service in the Hospitality Industry</td>
<td>E</td>
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<tr>
<td>BIT222</td>
<td>Digital Productions</td>
<td>E</td>
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<tr>
<td>BIT224</td>
<td>Desktop Design</td>
<td>E</td>
</tr>
<tr>
<td>BIT226</td>
<td>Small Business Accounting II</td>
<td>E</td>
</tr>
<tr>
<td>BIT232</td>
<td>IT Essentials</td>
<td>E</td>
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<td>BIT233</td>
<td>Computer Science Essentials (PLTW)(E)</td>
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<tr>
<td>BIT333</td>
<td>Computer Science Principles</td>
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<tr>
<td>BIT301</td>
<td>Marketing Principles II</td>
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<tr>
<td>BIT304</td>
<td>Business Seminar/Business Work Experience</td>
<td>E</td>
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<tr>
<td>BIT402</td>
<td>Computer Science A (PLTW)</td>
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</tr>
<tr>
<td>BIT401</td>
<td>Financial Literacy (R)</td>
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</table>

**Wilmot Union High School Graduation Requirement:** 0.5 Financial Literacy Credits

53 \( R = \text{Required course at indicated grade level} \)  \( E = \text{Elective course at indicated grade level} \)
BIT101 – Introduction to Business
Credits: 0.50
Grades: 9-11
Laude Points: 2
College Credit: T

Business is the core of our economic system and every responsible citizen should have basic business knowledge. In this course, students will gain the basic understanding of the different types of businesses, business management and ownership, our government’s role in business as well as learn what it takes to start their own business. The topics discussed will give students an introduction to many other courses in BIT department at Wilmot. Every student interested in understanding business as it relates to life in a global economy or thinking of a potential career in business should definitely take this course! This course is a prerequisite to a few other business courses.

BIT121 – Computers for Professionals
Credits: 0.50
Grades: 9-12
Prerequisites: BIT101
Laude Points: 2
College Credit: T

Students will cover a variety of computer topics and software use in this course as well as review keyboarding posture. Students will become familiar with Microsoft Office Suite, specifically working with Word, PowerPoint, and Excel. Students will learn how to access school email and use it with proper “netiquette”. Computer basics will be explored by examining the parts inside of a computer and learning their functions. Web 2.0, social networking, and online safety will also be studied. Students will gain skills that prepare them for many other technology courses in the BIT department.

BIT132 – Introduction to Networking/Web Concepts
Credits: 1.00
Grades: 9-12
Prerequisites: BIT121 – Computers for Professionals or Counselor Approval
Laude Points: 2
College Credit: T

This course will introduce networking and web concepts. Topics will include the internet, OSI model, wireless, security, logical and physical topologies, hacking, and web pages. Individuals will learn real world skills related to employment.

BIT201 – Marketing Principles 1
Credits: 0.50
Grades: 10-12
Prerequisites: BIT101 – Introduction to Business
Laude Points: 2
College Credit: T

Marketing is one of the most dynamic and visible areas of business. Approximately one in every five jobs is marketing based. This course will not only provide a solid foundation to introduce students to marketing concepts and principles, but also give students an understanding of how marketing affects the daily lives of each person in our society. Various topics will include sports and entertainment marketing; promoting a business, product, or service, and event marketing. This will be done through interactive learning, as well as a few individual and group projects. Students are strongly encouraged to become members of Wilmot MBA—a co-curricular student organization that provides students exciting opportunities to gain valuable hands on marketing experience (conferences, competitive events, community service) related to what is taught in the classroom.

BIT202 – Small Business Accounting I
Credits: 0.50
Grades: 10-12

You will learn basic accounting practices used to keep financial records for a business. You will learn the accounting cycle for a service business organized as a proprietorship and a merchandising business organized as a partnership. QuickBooks Pro and Microsoft Excel, the programs used by small business owners, business professionals, and accountants, will be introduced to the students and used throughout
the course. This course is strongly recommended for any student interested in pursuing a business degree in college or business ownership. Gateway Technical College: Students who earn a B or better in Small Business Accounting I, Small Business Accounting II, and Advanced Accounting receive 3 credits through Gateway Technical College.

BIT203 – Business Law
Credits: 0.50
Grades: 10-12

This course is designed to acquaint students with the basic legal principles relevant to their roles as citizens, consumers and employees. Students will learn about the origin of law, constitutional rights, business ethics, the court system, criminal and civil law, and contracts. Content will be highlighted through a mock trial, various scenarios and activities, role plays and actual court case analysis.

BIT204 – Leadership & Development
Credits: 0.50
Grades: 10-12

This course is designed to enhance and improve the leader inside you. Everyone is a leader at some capacity and the goal of this course is to allow students to discover who they are, what they believe in and help them become the best they can be.

BIT205 – Principles of Hospitality
Credits: 0.5
Grades: 10-12
Laude Points: 2
College Credit: T

This introductory course tours the related hospitality fields of hotels, tourism, foodservice, and recreational attractions with an emphasis on customer service. The course will cover the typical types of establishments found in Wisconsin and throughout the United States. Students will be introduced to common job titles, organizational structures, career opportunities, and trends in this field. Students will create a career plan and initiate a portfolio related to one of the specific hospitality fields.

BIT206 – Introduction to Service
Credits: 0.50
Grades: 10-12
Laude Points: 2
College Credit: T

This course addresses customer service in the hospitality fields, and discusses how service is the backbone of this industry. Students will learn how to identify good and poor service as well as how correct service has evolved and the reasons for quality service. Students will learn how to address upset customers and gain basic dispute management skills.

BIT207 – Managing Service in the Hospitality Industry
Credits: 0.50
Grades: 10-12
Laude Points: 2
College Credit: T

Students will master the key supervision skills needed in the business and hospitality fields. They will examine the evolution of management theory and organizational environments. This course investigates the four functions of management: planning and decision making, organization, leading and motivating, and controlling. Additional topics may include: staffing, training, corporate social responsibility and ethics.

BIT222 – Digital Productions
Credits: 0.50
Grades: 9-12

This course will teach students Adobe Premiere Pro CS6, the program used by the professionals and taught at colleges and universities. Students will learn how to work with still images, import music, edit and assemble video, use transitions, apply effects, and design titles and credits to create quality movies. In this project-based course students will create projects using Picture-in-Picture and a Green Screen. In addition, during this course students will create videos for Wilmot High School. Want to begin your career in broadcasting? Within this course you will have an opportunity to broadcast Wilmot High School events. Learn how to use the equipment, sit in the broadcast booth, and describe the action.
Note: If you do not want to broadcast Wilmot events, that’s fine. Enroll in the class to learn Adobe Premiere CS6.
BIT224 – Desktop Design
Credits: 0.50
Grades: 9-12

This course will teach students Adobe InDesign CS6, the program used by the professionals and taught at colleges and universities. Students will create page design, integrate text and graphics from other software programs, edit the copy, adjust the graphics and add design touches to produce professional-quality documents quickly and easily. In this project-based course students will create DVD covers, calendars, brochures, newsletters, business forms, magazine covers, etc.

BIT226 – Small Business Accounting II
Credits: 0.50
Grades: 10-12
Prerequisites: BIT202 – Small Business Accounting I

You will broaden your study of accounting by further learning the accounting cycle for a merchandising business organized as a partnership. An accounting simulation will be part of the curriculum. QuickBooks Pro and Microsoft Excel will continue to be taught throughout the course. This course is strongly recommended for any student interested in pursuing a business degree in college or business ownership.

Gateway Technical College: Students who earn a B or better in Small Business Accounting I, Small Business Accounting II, and Advanced Accounting receive 3 credits through Gateway Technical College.

BIT232 – IT Essentials
Credits: 1.00
Grades: 9-12
Prerequisites: BIT121 – Computers for Professionals or Counselor Approval
Laude Points: 2
College Credit: T

IT Essentials focuses on the relationship between hardware and system software. The course topics include PCs, peripherals, networking, security, troubleshooting, and communication skills. IT Essentials is an introductory course that presents a foundation toward the pursuit of CompTIA A+ certification at Gateway Technical College.

BIT233 – Computer Science Essentials (PLTW)
Credits: 1.00
Grades: 9-12
Laude Points: 2
College Credit: PLTW

Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to Computer Principles and Computer Science A.

BIT301 – Marketing Principles 2
Credits: 0.50
Grades: 11-12
Prerequisites: BIT201 – Marketing Principles 1
Laude Points: 2
College Credit: T

Students will advance their knowledge and understanding of the marketing foundations, functions, and concepts through advanced level content, interactive learning, as well as applying that understanding through several higher level individual and group projects. Students enrolled in this course are strongly encouraged to be members of Wilmot MBA—a co-curricular organization that provides students exciting opportunities to gain valuable hands on marketing experience (conferences, events, community service) related to what is taught in the classroom. Students MUST take Marketing Principles I before this course.

BIT302 – Advanced Accounting
Credits: 1.00
Grades: 11-12
Prerequisites: BIT226 Small Business Accounting II
Laude Points: 1
College Credit: A

This course emphasizes the basic procedures and concepts of financial accounting: analyzing, recording and interpreting financial data. It includes the technical aspects and computer applications for communicating financial accounting information to stakeholders.

Gateway Technical College: Students who earn a B or better in Small Business Accounting I, Small Business Accounting II, and Advanced Accounting receive 3 credits through Gateway Technical College.
BIT303 – Business Management & Entrepreneurship
Credits: 1.00
Grades: 11-12
Prerequisites: BIT101 or BIT201 and Instructor Approval
Laude Points: 2
College Credit: T

This year long course will teach students to effectively manage a business. Students will learn all aspects of running a business and apply what they learn by managing the learning lab (the school store – THE PAW). Students are responsible for selecting merchandise, pricing, promotion and training employees. Students may achieve a Retail Management Skill Standards Certificate and/or Employability Skills Standards Certificate from DPI in Madison by completing this program. These certificates are a great addition to a career portfolio and college applications. Students will be required to fill out an application and get three recommendations from staff, community members, employers, coaches, etc.

BIT304 – Business Seminar/Business Work Experience
Credits: 1.00
Grades: 11-12
Prerequisites: 
Laude Points: 1
College Credit: A

Students will learn about careers, employability skills, soft skills, business practices, and how to conduct themselves in a professional and ethical manner. This program can also combine in-school instruction with paid employment in an area business. Early release time is available. Students may achieve an Apprenticeship Certificate from the Department of Workforce Development, Marketing Skills Certificate or Employability Certificate from DPI in Madison by completing this program. One credit is obtained from the classroom experience and an additional 2 credits may be obtained from work experience (credits are determined by the amount of hours worked).

BIT333 - Computer Science Principles (PLTW)
Course Syllabus:
Credits: 1.00
Grades: 10-12
Prerequisites: BIT233 – Computer Science Essentials
Laude Points: 2
College Credit: PLTW

Using Python® as a primary tool, students explore and become inspired by career paths that utilize computing, discover tools that foster creativity and collaboration, and sue what they’ve learned to tackle challenges like app development and simulation.

BIT401 – Financial Literacy
Credits: 0.50
Grades: 12
Prerequisites: Senior Standing (required for graduation)

Financial Literacy will enable students to make informed decisions about planning, organizing and allocating their financial resources. Students will gain an understanding of financial services, insurance, credit, loans (car, home and education), mortgages, budgeting and retirement strategies. Other topics will include renting an apartment, leasing vs. buying automobiles, purchasing a home, understanding the paycheck and careers.

BIT402 – Computer Science A (PLTW)
Credits: 1.00
Grades: 11-12
Prerequisites: BIT333 CSP (PLTW)
Laude Points: 2
College Credit: PLTW

Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases, as well as creating a game for their friends or an app to serve a real need in their community.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Grade Level</th>
</tr>
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<tbody>
<tr>
<td>ENG090</td>
<td>Nonfiction Reading Strategies (E)</td>
<td></td>
</tr>
<tr>
<td>ENG102</td>
<td>English I (R)</td>
<td></td>
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<tr>
<td>ENG103</td>
<td>Honors English I (R)</td>
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<tr>
<td>ENG309</td>
<td>Drama (E)</td>
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</tbody>
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**Wilmot Union High School Graduation Requirement:** 4 English Credits

*R* - Required course at indicated grade level  
*E* - Elective course at indicated grade level
ENGLISH

Department Course Offerings (Sophomore – Senior Year)

SOPHOMORE YEAR

ENG202
English II (R)

ENG203
Honors English II (R)

JUNIOR YEAR

ENG302
American Literature (R)

ENG501
Junior AP Language & Composition (E)

ENG309 Drama (E)

SENIOR YEAR

ENG402
Senior Literature & Composition (R)

ENG502
Senior AP Literature & Composition (E)

Wilmot Union High School Graduation Requirement: 4 English Credits

*R – Required course at indicated grade level  
E – Elective course at indicated grade level*
ENG090 – Nonfiction Reading Strategies
Credits: 0.50
Grades: 9

Students will learn and apply research-based strategies to improve their engagement with and comprehension of nonfiction texts. Students will learn to identify text structure, write about nonfiction and learn academic vocabulary that will enhance their comprehension of nonfiction texts. The curriculum will focus on State Standards for reading informational texts, literacy in science/technical subjects, and literacy in history/social studies, using texts that will reinforce content area standards taught in the freshman curriculum.

ENG102 – English I
Credits: 1.00
Grades: 9

During this year-long course students will study reading and writing using themes and patterns in fiction, nonfiction, poetry, and drama. Reading, speaking, listening, and language instruction will be focused on the critical concepts and skills outlined in the State Standards. Writing instruction will focus on the process of writing narrative, informative, and persuasive essays per the skills outlined in the State Standards.

ENG103 – Honors English I
Credits: 1.00
Grades: 9
Prerequisites: demonstrated excellence in the content and above proficient reading ability
Laude Points: 1

This course is designed for 9th graders who wish to pursue English 10 Honors and/or AP English. In addition to receiving skills taught in 9th grade, students will be exposed to reading and writing commonly used to prepare for the AP exams. Students will study reading and writing using themes and patterns in fiction, nonfiction, poetry, and drama. Reading, speaking, listening, and language instruction will be focused on the critical concepts and skills outlined in the State Standards. Writing instruction will focus on the process of writing narrative, informative, and persuasive essays per the skills outlined in the State Standards with a goal toward college level writing.

ENG202 – English II
Syllabus: ENG202
Credits: 1.00
Grades: 10
Prerequisites: ENG102 – English I

During this year-long course, the 10th grade students will study the rhetorical strategies used in the various modes of speaking, writing, and research. Literature from a variety of genres will be used to learn skills and critical concepts outlined in the State Standards for reading, speaking, listening, and language. Writing instruction will focus on the process and advanced development of writing analysis, informative, and persuasive essays and major papers, per the skills outlined in the State Standards.

ENG203 – Honors English II
Credits: 1.00
Grades: 10
Prerequisites: demonstrated excellence in the 9th grade content and above proficient reading ability
Laude Points: 1

This course is designed for 10th graders who wish to build on skills from Honors English I and pursue AP English in grades 11 and/or 12. In addition to receiving skills taught in tenth grade, students will be exposed to reading and writing commonly used to prepare for the AP exams. During this year-long course, the students will study the rhetorical strategies used in the various modes of speaking, writing, and research. Literature from a variety of genres will be used to learn skills and critical concepts outlined in the State Standards for reading, speaking, listening, and language. Writing instruction will focus on the process and advanced development of writing analysis, informative, and persuasive essays and major papers, per the skills outlined in the State Standards with a goal toward advanced writing skills appropriate for success on the AP exams.
**ENG302 – American Literature**  
Syllabus: ENG302  
Credits: 1.00  
Grades: 11  
Prerequisites: Junior level standing

During this year-long course, students will read multicultural American literature in various genres from the colonial period to the present. Nonfiction texts related to the curriculum will also be used for reading and writing instruction. Reading, speaking, listening, and language instruction will be focused on the critical concepts and skills outlined in the 11-12 State Standards using nonfiction texts and American Literature as the foundation for learning. Writing instruction will focus on the process of writing, expository, informative, and persuasive essays per the skills outlined in the 11-12 State Standards.

**ENG309 – Drama**  
Credits: 0.50  
Grades: 9-12

This class focuses on the fundamentals of stage presentation with an emphasis on acting and drama through performance. Students will learn basic voice and body techniques, participate in theater games, activities, improvisation, and play analysis. The history of the theater will be studied covering the major periods and playwrights from early Greek drama through modern. Students in this class will attend and evaluate a live theater performance.

**ENG402 – Senior Literature & Composition**  
Credits: 1.00  
Grades: 12  
Prerequisites: Senior level standing

During this year-long course, students will read and analyze works of world literature from a variety of authors and genres. Students will contrast major literary forms, techniques, and characteristics of the major literary periods and relate the works and authors to the major themes and social, political, and literary issues of the eras. Nonfiction texts related to the curriculum will also be used for reading and writing instruction. Reading, speaking, and listening instruction will be focused on the critical concepts and skills outlined in the 11-12 State Standards using nonfiction texts and American Literature as the foundation for learning. Writing instruction will focus on the process of writing, expository, informative, and persuasive essays per the skills outlined in the 11-12 State Standards.
FAMILY & CONSUMER SCIENCE
Department Course Offerings (Freshman Year)

FCS101
Foods & Family Management (E)

FCS102
Fashion & Clothing I (E)

FCS103
Interior Design (E)

FCS201
Advanced Foods (E)

FRESHMAN YEAR

R = Required course at indicated grade level  E = Elective course at indicated grade level
### FAMILY & CONSUMER SCIENCE

Department Course Offerings (Sophomore — Senior Year)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS101</td>
<td>Foods &amp; Family Management (E)</td>
<td>Sophomore</td>
</tr>
<tr>
<td>FCS102</td>
<td>Fashion &amp; Clothing I (E)</td>
<td>Junior</td>
</tr>
<tr>
<td>FCS103</td>
<td>Interior Design (E)</td>
<td>Senior</td>
</tr>
<tr>
<td>FCS201</td>
<td>Advanced Foods (E)</td>
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<tr>
<td>FCS202</td>
<td>Fashion Design (E)</td>
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<tr>
<td>FCS203</td>
<td>Sports Nutrition and Fitness (E)</td>
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<tr>
<td>FCS204</td>
<td>Child Development (E)</td>
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<tr>
<td>FCS301</td>
<td>Baking (E)</td>
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<tr>
<td>FCS302</td>
<td>Worldwide Cuisine (E)</td>
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<tr>
<td>FCS304</td>
<td>Medical Terminology (E)</td>
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<tr>
<td>HLT201</td>
<td>Health Occupations (E)</td>
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<tr>
<td>FCS104</td>
<td>Relationships (E)</td>
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<tr>
<td>FCS303</td>
<td>Assistant Child Care Teacher/Foundations of Early Childhood (E)</td>
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<tr>
<td>FCS401</td>
<td>Culinary Arts I (E)</td>
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<tr>
<td>FCS402</td>
<td>Culinary Arts II (E)</td>
<td></td>
</tr>
<tr>
<td>FCS403</td>
<td>CCT Co-op (Child Care Teacher)/Practicum I (E)</td>
<td></td>
</tr>
</tbody>
</table>

R = Required course at indicated grade level     E = Elective course at indicated grade level
FCS101 – Foods & Family Management  
Credits: 0.50  
Grades: 9-12  
This introductory class provides students with many opportunities to develop their cooking and cooperative working skills. Emphasis is placed on the basic skills of food preparation related to the My Plate dietary guidelines. Some of the units taught include: ingredient measurement, deciphering recipes, nutritional contributions of food, time management and meal planning.

FCS102 – Fashion & Clothing I  
Credits: 0.50  
Grades: 9-12  
Interested in a career in Fashion Retailing or Fashion Design? Elements, principles, trends and color in Fashion Design are emphasized. An introduction to simple sewing techniques, which will include sewing projects, which complete the course. All students are required to purchase all of their own fabric, sewing tools and notions.

FCS103 – Interior Design  
Credits: 0.50  
Grades: 9-12  
This course will explore housing needs, elements and principles of design, technical and style terminology, core design concepts and life style analysis. The emphasis is on interior design skills for careers in the expanding housing industry. Students may choose to complete the CAD design Course plus the Interior Design Course and earn a B or better in both classes in order to receive 3 credits through Gateway.

FCS104 – Relationships  
Credits: 0.50  
Grades: 11-12  
This course is designed to explore individual and family responsibilities for successful navigation of contemporary living. It includes such areas as personality development, self-esteem, friendship, dating, mate selection, marriage, families and career options in family and social services. This course aids students in developing human relationship skills and equips students to develop the best physical and emotional environments for present and future families.

FCS201 – Advanced Foods  
Credits: 0.50  
Grades: 9-12  
Prerequisites: FCS101 – Foods & Family Management  
Learn what it takes to develop advanced food preparation skills. This course is designed to build upon the knowledge learned in the Foods and Family Management Class. It is also a preparation for students that may want to take World Wide Cuisine, Baking and/or Culinary Arts classes. Students will explore: cooking, baking, meal planning, knife skills and how to successfully prepare nutritional foods with various ingredients and techniques.

FCS202 – Fashion Design  
Syllabus: FCS202  
Credits: 0.50  
Grades: 10-12  
Prerequisites: FCS102 – Fashion & Clothing I  
The students will explore the creative process and develop skills to be successful in the field of Fashion Design. This course will emphasize design concepts, sketching, draping, pattern-making, career exploration and advanced sewing in garment construction. Come and discover the designer in you by constructing your own fashion wear and accessories. All students are required to purchase all of their own fabric, sewing tools and notions.

FCS203 – Sports Nutrition and Fitness  
Credits: 0.50  
Grades: 10-12  
Prerequisites: FCS101 – Foods & Family Management  
Learn about connections between athletic performance, diet, exercise, sports, fitness and nutrition. Analyze the importance of healthy weight management to overall wellness for today and across the lifespan. Become a well-informed consumer of nutritional information. Prepare foods that will enhance athletic performance and support weight management; as well as recognize the contribution to wellness and how this allows you to be at your personal best.
FCS204 – Child Development
Credits: 0.50
Grades: 10-12

A study of the growth and development of a child from conception to 3 years of age will be covered. Areas of study will include: physical, intellectual, emotional and social development. The baby simulation will be an integral project, which will help replicate the responsibilities of parenthood.

FCS301 – Baking
Credits: 0.50
Grades: 10-12
Prerequisites: FCS201 Advanced Foods

This course is designed for students who love to bake. This class is centered on learning the scientific principles and specific techniques that are needed in making any baked good. Students will prepare items such as cakes, cookies, pastries, pies, savory baked goods and a variety of breads. Basic cake decorating will also be taught.

FCS302 – Worldwide Cuisine
Credits: 0.50
Grades: 10-12
Prerequisites: FCS201 Advanced Foods

Experience international culinary techniques from several foreign cuisines such as; Italian, German, Scandinavian, Oriental, Mexican and American. This course is designed for the student who desires to learn advanced food preparation methods and who enjoys creative cooking and sampling of a wide variety of foods and cultures.

FCS303 – Assistant Child Care
Teacher/Foundations of Early Childhood (307-148-3W7A)
Credits: 0.50
Grades: 11-12
Prerequisites: FCS204 – Child Development students will need to earn a “C” or better to advance to ACCT & CCT.
Laude Points: 2
College Credit: T

Students will learn the skills needed to earn an assistant child care certification from the state of Wisconsin. They will plan and conduct educational experiences for preschool children. Throughout the semester, students are required to spend 10 hours in a child care center working with children. Students must complete Assistant Child Care Teacher plus Child Services Co-op and earn a B or better in both classes in order to receive 3 credits through Gateway or any other Wisconsin Technical College.

FCS304 – Medical Terminology
Credits: 0.50
Grades: 10-12
Laude Points: 2
College Credit: T

This course will focus on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. There is major emphasis on spelling, definition, and pronunciation as well as an introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems. This will also be inclusive of systemic and surgical terminology.

HLT201 – Health Occupations
Credits: 0.50
Grades: 10-12
Prerequisites:

This is a semester-long course that provided a basic orientation to many different Health Occupations through the use of instruction and guest speakers from a variety of Health Care professions. This class is ideal for those who may be interested in a career in the healthcare field and includes topics such as career exploration including shadowing experiences, the ethical roles and responsibilities of a healthcare worker, an overview of human body functions, and an introduction to medical terminology.

FCS401 – Culinary Arts I
Credits: 1.00
Grades: 11-12
Prerequisites: FCS301 or FCS302

This course challenges students to develop the skills needed to be successful in the field of professional cooking and hospitality. Advanced techniques in food preparation include: breakfast foods, sandwiches, eggs, desserts, fruits, vegetables, salads, and garnishes. Student will focus on employability, using standardized recipes, planning nutritious and specialized menus, business math, controlling foodservice costs, applying basic cooking methods and technology in a professional setting and working
in today’s diverse workforce. Culinary Arts 1 is the first of a two-part program in which students have the opportunity to earn a nationally-recognized ProStart certificate of completion.

**FCS402 – Culinary Arts II**  
Credits: 1.00  
Grades: 12  
Prerequisites: FCS101 – Culinary Arts I earning a C or better

This course is a continuation of concepts covered in Culinary Arts I and helps students develop the skills needed to be successful in the field of Professional Cooking and Hospitality. Advanced techniques in food preparation include: potatoes and grains, desserts and baked goods, meat and seafood, and stocks and sauces. Advanced business concepts covered in this course are the art of service, marketing and the menu, purchasing and cost controls, standard accounting practices, communications, and tourism and lodging. Students will be exposed to new industry technologies in a professional setting. Culinary Arts II is the second of a two-part Certification program written by industry professionals and the National Restaurant Association. With successful completion of coursework, students will earn the nationally recognized ProStart Certificate of Achievement.

**FCS403 – CCT Co-op (Child Care Teacher)/Practicum I (307-174-3R11)**  
Credits: 2.00  
Grades: 12  
Prerequisites: FCS303 - ACCT  
Laude Points: 2  
College Credit: T

The Child Care Services Coop is a skill certificate program for seniors who are at least 17 years of age and who have adequately completed the Assistant Child Care Teacher (ACCT) Certification course during their junior year. Students will earn a Child Care Teacher (CCT), IT (Infant-Toddler) & Core Employability Skills Certifications from the state of Wisconsin. Competency areas covered in the course include: thinking/information processing, interpersonal skills, development of children, child care services introduction, food and nutrition, health and safety and additional needs of special children. Core employability skills are also calculated. Students who satisfactorily complete the program and graduate from high school also qualify to receive the second-level Department of Health and Family Services (DHFS) employment description as a Child Care Teacher. The students will also plan and conduct educational plans and experiences for preschool children. Throughout the year students are required to work 120 hours/semester (480 Total Hours – to include summers – before & after Senior year – August 31st deadline) in a Child Care/School setting and meet standard requirements to earn an additional 1/2 credit/semester, additional 1.0 credit/year. Students must complete Assistant Child Care Teacher plus Child Services Co-op and earn a B or better in all classes in order to receive 3 credits through Gateway or any other Wisconsin Technical College.

**ProStart Culinary Work Experience**  
Credits: Up to 2.0 Credits for working in a culinary setting  
Grades: 11-12  
Prerequisites: Concurrent with Culinary Arts I and/or II

The course is designed for those interested in pursuing careers in the Culinary and Hospitality Industry. Culinary I is the first step in completing the ProStart Program, and/or the Gateway Technical College Articulation. The ProStart program is implemented through the National Restaurant Association Education Foundation. It is a two year program. One credit is obtained from the classroom experience and an additional 1.0 credit each semester may be obtained from work experience. To receive the ProStart Certificate of Achievement.
Induction to Teaching
Department Course Offerings (Sophomore – Senior Year)

SOC313
Introduction to Human Development (E)

ITP102
Intro to Special Education (E)

ITP104
Current Trends and Issues in Education (E)

ITP103
Teaching Practicum and Effective Teaching Practices (E)

R - Required course at indicated grade level   E - Elective course at indicated grade level
PIE: Partners in Education through University of Wisconsin Whitewater

The PIE program is a concurrent education program which provides a unique way to deliver rigorous curriculum to qualified high school students by allowing them to earn college credit while still fully engaged in the high school activities. By taking college credit in high school, students also set themselves apart by demonstrating that they can succeed in college classes. The syllabus, assignments, and requirements for each course are aligned with those taught on the UW-Whitewater campus. Tuition for the PIE courses is currently about 1/3 of regular university tuition. Students receive transcripted credit for any PIE courses taken that are transferable to other colleges and universities. **Students may enroll in these courses for high school credit only or for both high school credit and 3 UW Whitewater credits. Students who wish to enroll in these courses for the 3 credits must meet the following UW-Whitewater requirements:** GPA of at least 3.25 on a 4.0 scale, ACT score of 24, and/or teacher approval.

**ITP102 – Intro to Special Education**
Credits: 0.50
Grades: 11-12
Prerequisites: none
Laude Points: 2
College Credit: T

Students will explore issues and perspectives related to children, adolescents, and young adults with a variety of ability and disability experiences. Students will examine perceptions, assumptions, and attitudes related to students with exceptional needs. Considerable time will be spent on inclusive practices in general education environments where all staff accept the responsibility for the social and educational growth of ALL students.

**SOC313 – Introduction to Human Development**
Credits: 0.50
Grades: 10-12
Laude Points: 2
College Credit: T

Students will learn the basic concepts of lifespan development using cognitive, biosocial, and psychological domains. Theorists include, but are not limited to, Piaget, Kohlberg, Vygotsky and Erikson. Empirical research will be evaluated and used to explore the science of human development. This course is a practical field for teaching, parenting, and any other career that interacts with people. Students will be encouraged to think scientifically and critically about the topics covered and identify ways to apply their knowledge of human development to their everyday lives and future. This course is aligned with Educational Foundations 230: Introduction to Human Development at UW-Whitewater, a developmental psychology course.

**ITP103 – Teaching Practicum and Effective Teaching Practices**
Credits: 0.50
Grades: 12

Students will be paired with local schools and teachers to observe and shadow students at varying age levels and abilities (PK-2, 3-5, 6-8, and students with cognitive disabilities). During this course students will obtain practicum hours that are supported by coming together one day a week to discuss their experiences. The classroom time will provide students an opportunity to journal, research, analyze, and share their learning experiences, while integrating best teaching practices into their practicum. Students will produce a portfolio based on Wisconsin teaching standards. **This course is only offered during second semester of the senior year. Students are scheduled at the feeder school during 8th hour on Monday – Thursday. On Friday during 8th hour, students meet at Wilmot. Students will be required to provide their own transportation.**
ITP104 – Current Trends and Issues in Education
Credits: 0.50
Grades: 11-12

Students will explore the role of public education in the United States shaping their knowledge for analysis of the current trends and issues in education. Students will become familiar with the various roles in the public school system, the importance of teacher collaboration, licensing, teaching standards and content and grade level State Standards.
MTH102
Algebra (R)

MTH202
Geometry (R)

MTH203
Honors Geometry (E)

MTH204
Geometry in Construction (E)

MTH301
Algebra 2 (R)

MTH302
Honors Algebra 2 (E)

FRESHMAN YEAR

Wilmot Union High School Graduation Requirement: 3 Math Credits

R = Required course at indicated grade level
E = Elective course at indicated grade level
# MATH

**Department Course Offerings (Sophomore – Senior Year)**

- **Sophomore Year**
  - MTH202 Geometry (R)
  - MTH203 Honors Geometry (E)
  - MTH204 Geometry in Construction (E)

- **Junior Year**
  - MTH301 Algebra 2 (R)
  - MTH302 Honors Algebra 2 (E)
  - MTH401 Pre-Calculus & Analytic Geometry (E)
  - MTH402 Honors Pre-Calculus & Analytic Geometry (E)

- **Senior Year**
  - MTH501 AP Calculus AB (E)
  - MTH502 AP Statistics (E)
  - MTH503 AP Calculus BC (E)
  - MTH304 Financial Algebra (E)
  - MTH313 Technical Mathematics (E)

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*Wilmot Union High School Graduation Requirement: 3 Math Credits*

*R = Required course at indicated grade level | E = Elective course at indicated grade level*
MTH102 – Algebra
Credits: 1.00
Grades: 9

This course focuses on solving linear equations and inequalities, linear functions, systems of linear equations and inequalities, quadratic equations, and polynomials. Geometry, probability, and statistics are integrated throughout the course. Successful completion of this course satisfies the Algebra requirement for graduation.

MTH202 – Geometry
Credits: 1.00
Grades: 9-10
Prerequisites: Algebra

This course focuses on inductive and deductive reasoning, parallel and perpendicular lines, congruence and properties of triangles, quadrilaterals and polygons, similarity, right triangles, and circles. Proof, as well as coordinate and transformational methods, are integrated into the course. Successful completion of this course satisfies the Geometry requirement for graduation.

MTH203 – Honors Geometry
Credits: 1.00
Grades: 9-10
Prerequisites: Algebra and Teacher Recommendation
Laude Points: 1

This course covers much of the content of the regular Geometry Course, plus additional topics. The use of proof will be emphasized and material will be covered in depth and at a more rigorous pace compared to Geometry, with a goal toward advancing math skills appropriate for college level AP Exams. Successful completion of this course satisfies the Geometry requirement for graduation. This course is recommended for students that plan on taking AP Calculus or AP Statistics.

MTH204 & TAE209- Geometry in Construction
Credits: 2.00
Grades: 9-10
Prerequisites: Algebra

Geometry in Construction is an interdisciplinary course that combines Geometry with Construction through the building of a significant construction project. The purpose of the course is to provide students an opportunity to learn Geometry by directly applying the concepts to a real world construction project, while providing students with a better understanding of both the Geometry and the Construction content through the combination of the academic and work-world contexts. The Geometry content matches that of the other Geometry courses taught in the Mathematics Department, and prepares students for the subsequent Algebra 2 courses. Students will be exposed to and gain hands-on experience in job site safety and the phases of residential construction. Additional emphasis given to teamwork, problem-solving, and the promotion of STEM education. Upon successful completion of this course, students earn a required credit for Geometry and an elective tech ed credit in this double-period course co-taught by a Math instructor and a Construction instructor.

MTH301 – Algebra 2
Credits: 1.00
Grades: 9-12
Prerequisites: Algebra & Geometry

This course focuses on quadratic, polynomial, exponential, logarithmic, rational, radical and trigonometric functions, their abstract properties and their use for modeling real world situations.

MTH302 – Honors Algebra 2
Credits: 1.00
Grades: 9-11
Prerequisites: Honors Geometry and Teacher Recommendation
Laude Points: 1

This college-prep course is intended for students seeking a more in depth approach to Algebra 2 content and a rigorous pace compared to Algebra 2, with a goal toward advancing math skills appropriate for college level AP exams. This course is recommended for students that plan on enrolling in AP Calculus and/or AP Statistics.
MTH304 – Financial Algebra
Credits: 1.00
Grades: 12
Prerequisites: Algebra 2

This course combines algebraic and graphical approaches with practical business and personal finance applications. Coverage includes piecewise functions, regression limits, exponential functions, and linear and quadratic systems. Students will learn about investments, credit, expenses, insurance, income tax, and budgeting.

MTH313 – Technical Mathematics
Credits: 1.00
Grades: 12
Prerequisites: Geometry

This course reviews the four basic mathematical operations on whole numbers, fractions and decimals. Basic algebra and trigonometry as related to technical fields is also covered. Geometric principles along with calculations of linear, area and volume measurements are applied. Students will interpret and sketch graphs, cover the metric system, work with methods to solve technical conversion problems and be exposed to an introduction of statistics. This course is articulated with Gateway Technical College and students will receive GTC credit.

MTH401 – Pre-calculus & Analytic Geometry
Credits: 1.00
Grades: 10-12
Prerequisites: Algebra 2

This course provides a good preparation for college math courses. Topics include functions and graphs; polynomial, power and rational functions; exponential, logistic, and logarithmic functions; trigonometry; matrices and systems of equations; conic sections; and sequences and series.

MTH402 – Honors Pre-calculus & Analytic Geometry
Credits: 1.00
Grades: 10-12
Prerequisite: Honors Algebra 2 and Teacher recommendation
Laude Points: 1

This college-prep course includes much of the content of Pre-calculus as well as additional topics including trigonometry. Material will be covered more in depth and at a rigorous pace as compared to Pre-calculus. This course is recommended for students that plan on taking AP Calculus.

MTH501 – AP Calculus AB
Credits: 1.00
Grades: 11-12
Prerequisites: MTH401 or MTH402
Laude Points: 2
College Credit: AP

This is a college-level course equivalent to a first semester Calculus I course, covering the major topics of limits, derivatives, and integrals, as well as other topics specified in The College Board Advanced Placement AP Calculus course description. It has a rigorous college-level curriculum that is paced to prepare students for the AP Calculus AB Exam given in May. Students who score high enough on the AP Exam in the spring can earn college credit and/ or advanced placement at the college they attend in the fall.
MTH502 – AP Statistics
Credits: 1.00
Grades: 11-12
Prerequisites: MTH302 or MTH301 and Teacher Recommendation
Laude Points: 2
College Credit: AP

This is a college-level course intended for students that intend to study in a science, social science, medical or business-related field in college. AP Statistics introduces 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. A strong emphasis is placed upon student ability to communicate mathematics in written form. Students who successfully complete the course and the AP Statistics examination in May, may receive credit, advanced placement, or both for a one-semester introductory college statistics course.

MTH503 – AP Calculus BC
Credits: 1.00
Grades: 11-12
Prerequisites: Students must have completed MTH402 – Honors Precalculus & Analytic Geometry with teacher recommendation.
This course is also appropriate for those who have passed MTH501 – AP Calculus AB.
Laude Points: 2
College Credit: AP

AP Calculus BC is roughly equivalent to both first and second semester college calculus courses, covering differential and integral calculus, sequences and series, and other topics as specified in the College Board AP Calculus BC course description. It has a rigorous college-level curriculum that is paced to prepare students for the AP Calculus BC exam given in May. Students who score high enough on the AP exam in the spring can earn college credit and/or advanced placement at the college they attend in the fall.
### MUSIC

#### Department Course Offerings (Freshman Year)

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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Type</th>
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<tbody>
<tr>
<td>MUS104</td>
<td>Percussion Ensemble (E)</td>
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<tr>
<td>MUS105</td>
<td>Music Appreciation (E)</td>
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<tr>
<td>MUS201</td>
<td>Red &amp; White Concert Band (E)</td>
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<tr>
<td>MUS202</td>
<td>Panther Concert Band (E)</td>
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<tr>
<td>MUS203</td>
<td>Orchestra (E)</td>
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<tr>
<td>MUS204</td>
<td>Concert Choir (E)</td>
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<td>MUS304</td>
<td>Treble Choir (E)</td>
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<td>MUS305</td>
<td>Vocal Ensemble (E)</td>
<td></td>
</tr>
<tr>
<td>MUS308</td>
<td>Intro to Music Theory (E)</td>
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</tr>
</tbody>
</table>

**FRESHMAN YEAR**

*R = Required course at indicated grade level  
E = Elective course at indicated grade level*
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<td>Percussion Ensemble (E)</td>
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<tr>
<td>MUS203</td>
<td>Orchestra (E)</td>
<td>Junior</td>
</tr>
<tr>
<td>MUS204</td>
<td>Concert Choir (E)</td>
<td>Junior</td>
</tr>
<tr>
<td>MUS301</td>
<td>Honors Wind Ensemble (E)</td>
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</tr>
<tr>
<td>MUS303</td>
<td>Jazz Ensemble (E)</td>
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<td>MUS304</td>
<td>Treble Choir (E)</td>
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<tr>
<td>MUS305</td>
<td>Vocal Ensemble (E)</td>
<td>Senior</td>
</tr>
<tr>
<td>MUS306</td>
<td>Theater Technology (E)</td>
<td>Senior</td>
</tr>
<tr>
<td>MUS308</td>
<td>Intro to Music Theory (E)</td>
<td>Senior</td>
</tr>
<tr>
<td>MUS309</td>
<td>Contemporary Commercial Music (CCM) (E)</td>
<td>Senior</td>
</tr>
<tr>
<td>MUS501</td>
<td>AP Music Theory (E)</td>
<td>Senior</td>
</tr>
</tbody>
</table>

*R = Required course at indicated grade level  E = Elective course at indicated grade level*
MUS104 – Percussion Ensemble
Credits: 0.50
Grades: 9-12

All percussionists enroll in this class first semester followed by MUS201 or MUS202 second semester. This class reinforces percussion technique including: timpani, snare, keyboards, Latin and African percussion. This ensemble is the drum section for the Guardsmen and will perform at all band concerts.

MUS105 – Music Appreciation
Credits: 0.50
Grades: 9-12

This course is designed to increase the student’s awareness, knowledge, enjoyment and interest in diverse styles of music by applying listening opportunities, discussion, research, lectures and assigned readings. Styles include early musical forms, classical music and American jazz, as well as modern traditions including gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip hop. Students do not need to have a musical background in order to succeed in class.

MUS203 – Orchestra
Credits: 1.00
Grades: 9-12

This course is open to all students 9-12 who play violin, viola, cello or bass. Music studied will be for string orchestra. Previous experience playing a stringed instrument is required.

MUS204 – Concert Choir
Credits: 1.00
Grades: 9-12

Concert choir is a performance based ensemble open to students interested in singing. Repertoire of vast varieties will be performed: classical to popular music. The Choir competes at the local level.

MUS301 – Honors Wind Ensemble
Credits: 1.00
Grades: 10-12
Prerequisites: audition and selection
Laude Points: 1

This advanced band class studies band literature above grade 4. Students will be place based on seating audition score and instructor approval. This course will combine with concert bands to form the Guardsmen marching band.

MUS303 – Jazz Ensemble
Credits: 0.50
Grades: 10-12

This is a performance based class. Students will experience big band swing, jazz, rock, ballad and Latin music. The history of Jazz as well as improvisation will also be studied.

MUS304 – Treble Choir
Credits: 1.00
Grades: 9-12
Prerequisites: Teacher Approval

Treble Choir is a specialized ensemble for females, focused on superior performance and will compete at the local, state and national levels. The purpose of this choir is to further develop professionalism, musicianship and vocal mastery to the fullest potential.
MUS305 – Honors Vocal Ensemble
Credits: 1.00
Grades: 9-12
Prerequisites: Audition
Laude Points: 1

Honors Vocal Ensemble is the most advanced performance based choir. This ensemble studies a vast range of music from Renaissance to Contemporary. Along with performing at various locations, the Vocal Ensemble competes at the local, state and national level.

MUS306 – Theater Technology
Credits: 0.50
Grades: 10-12

The students will work with sound reinforcement, staging, and lighting. This course requires after school participation to meet practicum requirements.
Course Syllabus: Theater Tech

MUS308 – Intro to Music Theory
Credits: 0.50
Grades: 9-12

This class is designed for students who love music, as well as students who seek to enrich their knowledge of music fundamentals. The purpose of this course is for students to develop skills that will lead to a thorough understanding of music theory and music composition/arranging.

MUS309 – Contemporary Commercial Music (CCM)
Credits: 1.0
Grades: 10, 11, 12
Prerequisites: Audition only; instructor approval

Pentatonix? Take 6? The Sing-off? Pitch-Perfect? Do you recognize these names? Now you can be in a group and sing the same songs and styles. Join "Wilmot's Key Change" and be part of a new era. Audition only.

MUS501 - AP Music Theory
Credits: 1.00
Grades: 10, 11, 12
Prerequisites: MUS308 - Intro to Music Theory and Instructor Approval
Laude Points: 2
College Credit: AP

This course is designed to develop the student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. Students will be required to read, notate, write, sing and listen to music, while completing assignments that contain sight-singing, dictation, and analysis of musical excerpts. The course will include concepts that will allow students to be successful when taking the AP Music Theory exam. Some of these concepts include: musical terminology, notational skills, basic compositional skills, score analysis, and aural skills.
PHYSICAL EDUCATION/HEALTH

Department Course Offerings (Freshman Year)

PHY101
Physical Education I (R)

HLT101
Health Education (R)

FRESHMAN YEAR

Wilmot Union High School Graduation Requirement: 1.5 Physical Education Credits/ 0.5 Health Education Credits

R = Required course at indicated grade level    E = Elective course at indicated grade level
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY202</td>
<td>Unified Physical Education (E)</td>
<td>Sophomore</td>
</tr>
<tr>
<td>PHY205</td>
<td>Total Body Fitness I (E)</td>
<td>Sophomore</td>
</tr>
<tr>
<td>PHY206</td>
<td>Total Body Fitness II (E)</td>
<td>Sophomore</td>
</tr>
<tr>
<td>PHY207</td>
<td>Trends I (E)</td>
<td>Sophomore</td>
</tr>
<tr>
<td>PHY208</td>
<td>Team Sports I (E)</td>
<td>Sophomore</td>
</tr>
<tr>
<td>PHY306</td>
<td>Team Sports II (E)</td>
<td>Sophomore</td>
</tr>
<tr>
<td>PHY307</td>
<td>Individual and Recreational Activities I (E)</td>
<td>Sophomore</td>
</tr>
<tr>
<td>PHY308</td>
<td>Individual and Recreational Activities II (E)</td>
<td>Sophomore</td>
</tr>
<tr>
<td>PHY403</td>
<td>Intro to Weight Training (E)</td>
<td>Sophomore</td>
</tr>
<tr>
<td>PHY404</td>
<td>Weight Training II (E)</td>
<td>Sophomore</td>
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<tr>
<td>PHY405</td>
<td>Weight Training III (E)</td>
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<tr>
<td>PHY406</td>
<td>Weight Training IV (E)</td>
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<td>PHY407</td>
<td>Weight Training V (E)</td>
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<tr>
<td>PHY408</td>
<td>Weight Training VI (E)</td>
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</tr>
<tr>
<td>PHY409</td>
<td>Weight Training VII (E)</td>
<td>Junior</td>
</tr>
</tbody>
</table>

**Wilmot Union High School Graduation Requirement:** 1.5 Physical Education Credits/ 0.5 Health Education Credits

*R* = Required course at indicated grade level  
*E* = Elective course at indicated grade level
PHY101 – Physical Education I  
Credits: 0.50  
Grades: 9  

Developing and maintaining personal fitness throughout one’s life begins with knowledge. Major concepts related to physical activity and fitness are presented in a format that equips the student with useful strategies to improve individual fitness. Specific activities are geared to assess and/or grasp major concepts crucial to establishing and maintaining lifelong fitness. Major concepts will be reinforced by the student actively participating in the Fitness Center which will include aerobic and anaerobic activities. Several sport and recreational activities will be incorporated into this required course: eclipseball, basketball, flag football, softball, table tennis, baggo, badminton, floor hockey, and soccer. Fitness units will include powerwalking, aerobics, weight lifting and yoga. Many of the Wisconsin Model Academic Standards for Physical Education are met upon successful completion of this course.

PHY202 - Unified Physical Education  
Credits: 0.50  
Grades: 10-12  
Prerequisites: PHY101 – Physical Education I  

This course combines students of all abilities to participate in developmentally appropriate activities including lifetime activities, physical fitness, and sport. Students will work together to increase competence and confidence in a variety of physical activities. Through ongoing leadership opportunities, members of this course will be empowered to help create a more inclusive and accepting school environment for all students.

PHY205 - Total Body Fitness I  
Credits: 0.50  
Grades: 10-12  
Prerequisites: PHY101  

This course is designed to introduce the student to a wide variety of health enhancing physical fitness activities. Activities will include both anaerobic and aerobic workouts. Such activities will include proper lifting techniques, performing bodyweight exercises, cardiovascular workouts (treadmill, bike, elliptical, track), and high intensity cross-fit circuit workouts.

PHY206 - Total Body Fitness II  
Credits: 0.50  
Grades: 10-12  
Prerequisites: PHY101, PHY205 Total Body Fitness I  

This course is designed to build on the wide variety of health enhancing physical fitness activities the students learned in TBF I. Activities will include both anaerobic and aerobic workouts. Such activities will include proper lifting techniques, performing bodyweight exercises, cardiovascular workouts (treadmill, bike, elliptical, track), and high intensity cross-fit circuit workouts. Students will also learn the major muscles of the body and how they impact movement.

PHY207 – Trends I  
Credits: 0.50  
Grades: 10-12  
Prerequisites: PHY101 – Physical Education I  

Trends I is a course designed for students interested in individual and group movements. Some of the activities that are covered through this course might include: Tae Bo, Pilates, Zumba, yoga, hip hop dance, aerobics, and introductory level dance. This course will also cover components of teamwork, flexibility, muscular strength, cardiovascular endurance, kinesthetic rhythm, and coordination. This course is designed for students who enjoy working collaboratively with others and are willing to take workouts in a creative direction.
PHY208 - Team Sports I
Credits: 0.50
Grades: 10-12
Prerequisites: PHY101 – Physical Education I

Team Sports is an elective physical education course designed for students who have successfully completed PHY ED 101. This course will cover seven major team sports. The possible sports are basketball, flag football, volleyball, soccer, floor hockey, softball and lacrosse. The Team Sports course will incorporate ALL areas of the sport from participation, scorebook keeping, to coaching. Out of the class reading, of the rules and regulations of each sport, should be expected. Students electing to take the Team Sports course should enjoy participating in competitive sports and want to learn all facets of the sports.

PHY306 - Team Sports II
Credits: 0.50
Grades: 11-12
Prerequisites: PHY101 and PHY208

Team Sports is an elective physical education course designed for students who have successfully completed PHY ED 101 and PHY ED 301 Team Sports I. This course will cover five of the sports from Team sports I. The possible sports are basketball, flag football, volleyball, soccer, floor hockey, softball and lacrosse. The Team Sports course will incorporate ALL areas of the sport from participation, scorebook keeping, coaching and officiating. Students will also finish the course as certified basketball, volleyball and/or softball/baseball officials. Out of the class reading, of the rules and regulations of each sport is expected. Students electing to take the Team Sports course should enjoy participating in competitive sports and want to learn all facets of the sports.

PHY307 - Individual and Recreational Activities I
Credits: 0.50
Grades: 10-12
Prerequisites: PHY101

Individual and Recreational Activities I is an elective physical education course for students that have successfully completed PHY101. Individual and Recreational Activities I is a class that focuses on sports and games that the students can play throughout their lifetime. It will address the basic rules of play, scoring and safety. Sports to be covered will consist of, but are not limited to the following. Badminton, Volleyball, Pickle Ball, Archery, Horse Shoes, Baggo, Ladder Toss, Power walking, Aerobics, etc. This class will also involve the use of the fitness center for cardio and weight training. The students will be tested on the basic rules for safety and game play. They will also be evaluated on a daily basis on their ability to play the sports/activities to an acceptable level of competitiveness.

PHY308 - Individual and Recreational Activities II
Credits: 0.50
Grades: 10-12
Prerequisites: PHY101 & PHY307

Individual and Recreational Activities II is an elective physical education course for students that have completed PHY101 and PHY307. Individual and Recreational Activities II will be a class that takes the sports and games that students can play for a lifetime, to the next level. This class will challenge the students to adapt sports and games to accommodate different class sizes, available space, and differing abilities. The students will have to know the specific rules, scoring, and safety aspects of the sports/activities. The students will be asked to invent a game or activity, as well as, adapt an activity for a specific situation. The students will also create a personal fitness program involving cardio and weight training. This class will include such sports as softball, kickball, eclipse ball, volleyball, bowling, etc. Individual and Recreational Activities II will enhance the student’s problem solving skills as well as their critical thinking skills through the use of sports.

PHY403 - Intro to Weight Training
Credits: 1.00
Grades: 10-12
Prerequisites: PHY101

This course is designed to introduce the student to a wide variety of health enhancing physical fitness activities. Activities will include both anaerobic and aerobic workouts. Such activities will include proper lifting techniques, performing bodyweight exercises, cardiovascular workouts that stress proper running techniques. Major lifts will include, Bench press, Back and Front Squat, Push Press, Rows, Deadlift and Cleans.
PHY404 - Weight Training II
Credits: 1.00
Grades: 11-12
Prerequisites: PHY101 and PHY403 Intro to Weight Training

This course is designed to further the student’s knowledge on basic and complex lifts. Activities will include both anaerobic and aerobic workouts. Such activities will include proper lifting techniques, performing bodyweight exercises, cardiovascular workouts that stress proper running technique and speed and agility training. Major lifts will include, Bench press, Back and Front Squat, Push Press, Rows, Deadlift, Cleans and Overhead snatch. Students will also learn the major muscles of the body and how they impact movement.

PHY405 - Weight Training III
Credits: 1.00
Grades: 11-12
Prerequisites: PHY01, PHY403 and PHY404

This course is designed to further the student’s knowledge on basic and complex lifts. Activities will include both anaerobic and aerobic workouts. Such activities will include proper lifting techniques, performing bodyweight exercises, cardiovascular workouts that stress proper running technique and speed and agility training. Major lifts will include, Bench press, Back and Front Squat, Push Press, Rows, Deadlift, Cleans and Overhead snatch. Students will learn how all the muscles of the body impact movement and how to aid recovery and maintenance of the muscles.

HLT101 – Health Education
Credits: 0.50
Grades: 9

Health is a one semester course that is required for graduation. This course emphasizes the promotion of positive lifestyle behaviors and the importance of good decision making skills in relationship to a variety of health content areas. These areas include: nutrition, stress management, first aid, tobacco, alcohol and substance abuse, health skills, and AIDS/HIV and human growth and development.
SCI102
Biology (R)

SCI103
Honors Biology (E)

SCI104
Principles of the Biomedical Sciences (E)

FRESHMAN YEAR

Wilmot Union High School Graduation Requirement: 3 Science Credits

R – Required course at indicated grade level
E – Elective course at indicated grade level
# Science Department Course Offerings (Sophomore – Senior Year)

**Wilmot Union High School Graduation Requirement: 3 Science Credits**

<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
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</thead>
<tbody>
<tr>
<td>SCI104 Principles of the Biomedical Sciences (PLTW) (E)</td>
<td>SCI104 Principles of the Biomedical Sciences (PLTW) (E)</td>
<td>SCI104 Principles of the Biomedical Sciences (PLTW) (E)</td>
</tr>
<tr>
<td>SCI205 Chemistry (R)</td>
<td>SCI307 Forensic Science (E)</td>
<td>SCI307 Forensic Science (E)</td>
</tr>
<tr>
<td>SCI206 Honors Chemistry (E)</td>
<td>SCI308 Medical Interventions (PLTW) (E)</td>
<td>SCI308 Medical Interventions (PLTW) (E)</td>
</tr>
<tr>
<td>SCI207 Human Body Systems (PLTW) (E)</td>
<td>SCI401 Biomedical Innovations (PLTW) (E)</td>
<td>SCI401 Biomedical Innovations (PLTW) (E)</td>
</tr>
<tr>
<td>SCI208 Geology &amp; Astronomy (E)</td>
<td>SCI501 AP Biology (E) (alternating years)</td>
<td>SCI501 AP Biology (E) (alternating years)</td>
</tr>
<tr>
<td>SCI209 Oceanography &amp; Climatology (E)</td>
<td>SCI502 AP Physics (E)</td>
<td>SCI502 AP Physics (E)</td>
</tr>
<tr>
<td>SCI303 Physics (E)</td>
<td>SCI506 AP Chemistry (E) (alternating years)</td>
<td>SCI506 AP Chemistry (E) (alternating years)</td>
</tr>
<tr>
<td>SCI304 Horticulture (E)</td>
<td>SCI503 AP Environmental Science (E)</td>
<td>SCI503 AP Environmental Science (E)</td>
</tr>
<tr>
<td>SCI306 Honors Physics (E)</td>
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<td></td>
</tr>
<tr>
<td>SCI505 AP Environmental Science (E)</td>
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</table>

**R** = Required Course  
(E) = Elective Course
There are five life science topics in the Next Generation Science Standards (NGSS) for the high school level: Structure and Function/ Inheritance and Variation of Traits, Matter and Energy in Organisms and Ecosystems/ Interdependent Relationships in Ecosystems/ Natural Selection and Evolution.

Honors Biology will delve deeper into the topics outlined in Biology: Structure and Function/ Inheritance and Variation of Traits, Matter and Energy in Organisms and Ecosystems/ Interdependent Relationships in Ecosystems/ Natural Selection and Evolution. Placement is based on reading level, performance in previous science courses, teacher recommendation and overall academic achievement.

This is the first of four courses in the Project Lead the Way Biomedical Sciences Program. Student work involves the study of human medicine, research processes, an introduction to bioinformatics, and the use of computer science, mathematics, and information theory to model and analyze biological systems. Students investigate the human body systems and various health conditions including: heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. Key biological concepts including homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops, and the relationship of structure to function are incorporated in the curriculum.
**SCI207 – Human Body Systems**  
Credits: 1.00  
Grades: 10-12  
Prerequisites: SCI104 Prin. Of Biomedical Sciences or Teacher Recommendation  
Laude Points: 2  
College Credit: PLTW

This is the second of four courses in the Biomedical Sciences Program. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through engaging real-world cases and play the roles of biomedical professionals to solve medical mysteries. Laude points will be given to sophomore and junior students only.

**SCI208 – Geology and Astronomy**  
Credits: 0.50  
Grades: 10-12

In this course, two primary disciplines of Earth science are covered in one semester. In geology, students will learn about the forces that shape the Earth, the composition of soil, rocks and minerals, plate tectonics, and fossil evidence that supports the evolution of the Earth. Astronomy focuses on many aspects of the universe, theories about how the universe was created, the effect of the Moon on the Earth, current studies in space and other related topics. This course is offered for the fall semester.

**SCI209 – Oceanography and Climatology**  
Credits: 0.50  
Grades: 10-12

This course focuses on two distinct areas of Earth science. Oceanography emphasizes the physical and chemical properties of salt water environments, the structure of the ocean floor, life within the ocean, as well as environmental impacts and current research. Climatology will explore the effects of ocean currents, how to read and interpret weather maps, how to identify natural weather events, research on past weather events and weather forecasting technologies. This course is offered for the spring semester.

**SCI303 – Physics**  
Credits: 1.00  
Grades: 10-12

Physics is a part of the core science curriculum (Next Generation Science Standards/NGSS) and is recommended for college bound students, as well as any student with an interest in the physical world and how things work. The course of study includes forces and interactions, energy, and waves and electromagnetic radiation. The approach in this course is “concepts first” with fewer mathematical applications than in Honors Physics.

**SCI304 – Horticulture**  
Credits: 0.50  
Grades: 10-12

This half-credit course will offer a survey of the major phases of plant growth and management. Students will learn about basic botany including morphology, ecology and diversity of plants as well as the factors needed for plant growth: light, temperature, nutrients, water and pH. Greenhouse experiences will include seed germination, tissue culture, germinating cuttings, transplanting and garden planning.

**SCI306 – Honors Physics**  
Credits: 1.00  
Grades: 10-12  
Laude Points: 1

This is a yearlong course and part of the Honors science sequence. Honors Physics will help to better prepare students for success in AP Physics and uses more mathematical applications than Physics. This course is recommended for college bound students.

**SCI307 – Forensic Science**  
Credits: 0.50  
Grades: 11-12

This course is designed to provide students with a basic theoretical and philosophical understanding of the investigatory process. Crime-solving techniques will be studied, as well as hands-on laboratory investigations in such areas as fingerprinting, physical evidence, forensic anthropology and forensic serology.
SCI308 – Medical Interventions
Credits: 1.00
Grades: 11-12
Prerequisites: PBS, HBS, Teacher Recommendation
Laude Points: 2
College Credit: PLTW

This is the third of four courses in the Biomedical Sciences program. Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices and diagnostics. This course is designed for 11th or 12th grade students. Laude points will be given to junior students only.

SCI401 – Biomedical Innovations
Credits: 1.00
Grades: 12
Prerequisites: PBS, HBS, MI, Teacher Recommendation
Laude Points: 2
College Credit: PLTW

This is the capstone course for the Project Lead the Way, Biomedical Sciences program. In this year-long course, students design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering and public health. They have the opportunity to work on an independent project with a mentor or advisor from a university, hospital research institution or the biomedical industry. Throughout the course, students are expected to present their work to an audience of STEM professionals.

SCI501 – AP Biology (offered alternating years)
Credits: 1.00
Grades: 11-12
Laude Points: 2
College Credit: A/AP

AP Biology is a college level course. Students have the opportunity to earn university credit or advanced standing at most of the nation’s colleges or universities. Main subject areas covered are: chemistry of life, cells, heredity, genetics, evolution, organism diversity, structure and function of plants and animals, and ecology. Extensive laboratory experiences will require additional time put in by the student. Students who successfully pass the AP Biology test in May may receive college credit.

SCI502 – AP Physics
Credits: 1.00
Grades: 11-12
Prerequisites: Physics or Honors Physics
Laude Points: 2
College Credit: A/AP

AP Physics is designed to be equivalent to the first semester of a college physics course. This course emphasizes mastery of physics concepts, vocabulary, problem solving and laboratory skills. Students will understand kinematics of how objects move. Students will understand forces and Newton’s laws. Students will understand gravity and circular motion. Students will understand work, energy, power and momentum. Students will understand torque and rotational motion. Students will understand simple harmonic motion, waves and sound. Students will understand principles of static and current electricity. Students will have the opportunity to complete hands on laboratory activities for each of these topics. Students will also use their lab data to create graphs in Excel, using their data to discover the relationships between variables. In doing so, students will use scientific inquiry skills to discover some of the laws of physics on their own.
SCI503 – AP Environmental Science
Credits: 1.00
Grades: 10-12
Laude Points: 2
College Credit: AP

AP Environmental Science investigates modern environmental issues integrating concepts from biology, earth science and chemistry. The course is designed to provide students with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Students will participate in field studies to collect and analyze authentic data and to evaluate specific environments. Length of course – full year/one class period per day. Students who are admitted to the course are expected to take the Advanced Placement examination in May and may earn college credit.

SCI506 – AP Chemistry (offered alternating years)
Credits: 1.00
Grades: 11-12
Laude Points: 2
College Credit: A/AP

AP Chemistry is a rigorous course that is designed to be equivalent to an introductory, college-level Chemistry course. Students will develop problem solving, laboratory and collaborative skills. Instruction will be provided via lecture, laboratory activities, discussions and small group work. In addition, students’ independent study of each unit is critical to their success. Major topics include a review with additional depth of all of the topics of General Chemistry, as well as a study of thermochemistry and thermodynamics, kinetics, equilibria in gas and aqueous phases, oxidation/reduction, acids and bases, and electrochemistry. Students will have the opportunity to earn college credit by taking the AP exam in May.
SOCIAL STUDIES
Department Course Offerings (Freshman Year)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SOC101</td>
<td>Civics (R)</td>
</tr>
<tr>
<td>SOC102</td>
<td>Global Studies (R)</td>
</tr>
<tr>
<td>SOC103</td>
<td>World Geography (E)</td>
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<tr>
<td>SOC312</td>
<td>Academic Decathlon (E)</td>
</tr>
<tr>
<td>SOC505</td>
<td>AP Human Geography (E)</td>
</tr>
</tbody>
</table>

FRESHMAN YEAR

Wilmot Union High School Graduation Requirement: 4 Social Studies Credits

R – Required course at indicated grade level     E – Elective course at indicated grade level
<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC201 World History (R)</td>
<td>SOC301 U.S. History (R)</td>
<td>SOC401 Economics (R)</td>
</tr>
<tr>
<td>SOC103 World Geography (E)</td>
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<tr>
<td>SOC303 AP Economics (E)</td>
<td>SOC302 Wisconsin History (E)</td>
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<td></td>
<td>SOC305 Sociology (E)</td>
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<td></td>
<td>SOC306 Psychology (E)</td>
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<tr>
<td></td>
<td>SOC501 AP U.S. History (E)</td>
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<td></td>
<td>SOC502 AP Psychology (E)</td>
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<tr>
<td>SOC312 Academic Decathlon (E)</td>
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<tr>
<td>SOC313 Introduction to Human Development (E)</td>
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<tr>
<td>SOC504 AP World History (E)</td>
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<tr>
<td>SOC505 AP Human Geography (E)</td>
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</table>

Wilmot Union High School Graduation Requirement: 4 Social Studies Credits

R = Required course at indicated grade level  E = Elective course at indicated grade level
SOC101 – Civics
Credits: 0.50
Grades: 9

This required semester long course taken during the freshman year, covers the basics of our government and its role in our society. Students will learn the structure of the U.S. Government and how it operates so that they will become informed citizens who participate in our democratic system. State mandate now requires students to take a citizenship test.

SOC102 – Global Studies
Credits: 0.50
Grades: 9

This required semester long course taken during the freshman year, studies man’s relation to earth around the world. Regional studies of the world’s issues, cultures, and geography will enable students to better understand their relationship to the rest of the world in the global society of the 21st century. Asia, Africa, Europe, and Latin America will be compared and contrasted to the U.S. to provide a context and a greater relevance for the student.

SOC103 – World Geography
Credits: 0.50
Grades: 9-12

A semester course to study man’s relation to earth, the land areas, boundaries, the production from these areas, and the routes for transporting these products. Cultural and physical geography encompass this course.

SOC201 – World History
Credits: 1.00
Grades: 10

This required two-semester course taken during the sophomore year, covers the geographical, religious, achievements, political, economic and social impacts (GRAPES) of major civilizations throughout history from the industrial revolution to the present. Some specific topics include world religions, WWI and WWII, revolution, Cold War and current Middle East hot spots.

SOC301 – U.S. History
Credits: 1.00
Grades: 11

This required two semester course taken during the junior year, covers the history of the United States from colonization to the present. Physical and cultural geography is also addressed in this course. 20th century history is the emphasis of the 2nd semester.  

SOC302 – Wisconsin History
Credits: 0.50
Grades: 11-12

This semester course taken during the junior or senior year, introduces students to the study of the processes, peoples and events that have shaped the history of our state including Native American history and culture within our borders. The course also introduces students to the structure, functions and operations of state, county and municipal governments in Wisconsin.

SOC305 – Sociology
Credits: 0.50
Grades: 11-12

This semester course taken during the junior or senior year, introduces the systematic and scientific study of human group behavior. Topics covered include sociological theory, culture, group behaviors, social structure and institutions. This course is designed to prepare students for an introductory college sociology class.

SOC306 – Psychology
Credits: 0.50
Grades: 11-12

A semester course that will help any student become familiar with the principles of psychology for both daily life and college. Content includes the methodology used to study psychology, neuroscience, personality development, abnormal behavior, and associative learning. This is a Social Studies elective open to all juniors and seniors. Sophomores planning to enroll in AP Psychology during their junior year will be admitted to this course.
SOC312 – Academic Decathlon
Credits: 0.50 each semester
Grades: 10-12

This two semester course is geared for anyone (grades 9-12) who is inclined to make the school’s Academic Decathlon team. Students with all grade point averages are encouraged to take this class as the team must be made up of students with varying GPA’s. The curriculum is dictated by the United States Academic Decathlon and the overall theme changes annually. The theme is usually announced in March. Though the theme may change, the format of the class is structured the same every year. Students will study for tests in Literature, Economics, Math, Art, History, Science, and Music. Students will also prepare speeches, write essays, and be interviewed. First and second semester will vary widely due to the fact that the second semester is geared toward the people who make the team, but not limited to these students. Students will be graded mostly on their testing scores, essays and speech. Academic Decathlon class is a wonderful way to learn how to prepare for college. Many different learning techniques are practiced and explored. (Students may register for one or both semesters)

SOC313 – Introduction to Human Development
Credits: 0.50
Grades: 10-12
Laude Points: 2
College Credit: T

Students will be educated on basic concepts of lifespan development using cognitive, biosocial, and psychosocial domains. Theorists to be studied include but are not limited to Piaget, Kohlberg, Vygotsky and Erikson. Empirical research will be evaluated and used to explore the science of human development. This course is a practical field for teaching, parenting, and any other career that interacts with people. Students will be encouraged to think scientifically and critically about the topics covered and identify ways to apply their knowledge of human development to their everyday lives and future. This course is aligned with Educational Foundations 230: Introduction to Human Development at UW-Whitewater.
College Credit: T

SOC401 – Economics
Credits: 0.50
Grades: 12

This required semester course taken during the senior year explores the roles of consumers and producers and their interactions. The study and understanding of scarcity is central to the economic problem, which is, how people try to satisfy their unlimited wants with limited resources. Students will explore topics that concern how individuals, firms, and entire economies make decisions. As study of supply and demand and the way they function to determine prices, resource allocation, and income distribution will be included. Interpreting economic indicators and business cycles will also be discussed. Necessary skills include basic computation, graphical analysis and critical thinking. AP Economics fulfills the SOC401 Economics requirement

SOC501 – AP U.S. History
Credits: 1.00
Grades: 11-12
Prerequisites: SOC201 – World History
Laude Points: 2
College Credit: AP

This two semester course can be taken during the junior or senior year and fulfills the U.S. History requirement. This course follows the general outline provided by the Educational Testing Service and College Board, which creates the Advanced Placement examination. Students admitted to the course are expected to take the Advanced Placement examination in May. Successful completion of this exam could result in earning college credits while in high school that will transfer to any UW system school and most other universities. This is a college level history course taught to highly motivated students. The expectation is that students will assume responsibility for completing heavy reading and writing assignments.
AP U.S. History fulfills the SOC301 U.S. History requirement
SOC502 – AP Psychology
Credits: 1.00
Grades: 11-12
Laude Points: 2
College Credit: AP

This two semester course can be taken during the junior or senior year. This course follows the general outline provided by the Educational Testing Service and College Board, which creates the Advanced Placement examination. Students admitted to the course are expected to take the Advanced Placement examination in May. Successful completion of this exam could result in earning college credits while in high school that will transfer to any UW system school and most other universities. This is a college level psychology course taught to highly motivated students. The expectation is that students will assume responsibility for completing heavy reading and writing assignments.

SOC503 – AP Economics
Credits: 1.00
Grades: 11-12
Laude Points: 2
College Credit: AP

This two semester course can be taken during the junior or senior year and fulfills the Economics requirement. Students will cover both microeconomics and macroeconomics. This course follows the general outline provided by the Educational Testing Service and College Board, which creates the Advanced Placement examination. Students admitted to the course are expected to take both of the Advanced Placement examinations in May. Successful completion of this exam could result in earning college credits while in high school that will transfer to any UW system school and most other universities. This is a college level economics course taught to highly motivated students. The expectation is that students will assume responsibility for completing heavy reading and writing assignments. The purpose of this course is to develop a greater understanding of the evolution of global processes and contacts in different types of human societies beyond Western Civilization. AP World History fulfills the SOC201 World History requirement.

SOC504 – AP World History
Credits: 1.00
Grades: 10-12
Prerequisites: SOC504 – AP World History
Laude Points: 2
College Credit: AP

This two semester course can be taken during the sophomore through senior year and fulfills the World History requirement. This course follows the general outline provided by the Educational Testing Service and College Board, which creates the Advanced Placement examination. Students admitted to the course are expected to take the Advanced Placement examination in May. Successful completion of this exam could result in earning college credits while in high school that will transfer to any UW system school and most other universities. This is a college level history course taught to highly motivated students. The expectation is that students will assume responsibility for completing heavy reading and writing assignments. The purpose of this course is to develop a greater understanding of the evolution of global processes and contacts in different types of human societies beyond Western Civilization. AP World History fulfills the SOC201 World History requirement.
SOC505 – AP Human Geography
Credits: 1.00
Grades: 9-12
Laude Points: 2
College Credit: AP

This two semester course can be taken during the freshman through senior year and fulfills the Global Studies requirement. This course follows the general outline provided by the Educational Testing Service and College Board, which creates the Advanced Placement examination. Students admitted to the course are expected to take the Advanced Placement examination in May. Successful completion of this exam could result in earning college credits while in high school that will transfer to any UW system school and most other universities. This is a college level history course taught to highly motivated students. The expectation is that students will assume responsibility for completing heavy reading and writing assignments. The purpose of this course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of the Earth’s surface. Students will employ spatial concepts, landscape analysis and the tools and methods geographers use in their science and practice.

*AP Human Geography fulfills the SOC102 Global Studies requirement*
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<tr>
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<th>Course Title</th>
<th>Type</th>
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<td>TAE103</td>
<td>Drafting I/AutoCAD (E)</td>
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<td>General Metals (E)</td>
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<td>TAE107</td>
<td>Introduction to Engineering Design (PLTW) (E)</td>
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<td>TAE209</td>
<td>Geometry in Construction (E)</td>
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<tr>
<td>TAE302</td>
<td>Architectural Drafting &amp; Design (E)</td>
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**FRESHMAN YEAR**

*R = Required course at indicated grade level  
E = Elective course at indicated grade level*
<table>
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<tr>
<th>Course Code</th>
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<td>TAE203</td>
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<td>TAE204</td>
<td>Woodworking II</td>
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<td>TAE205</td>
<td>Welding: MIG/TIG</td>
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<tr>
<td>TAE206</td>
<td>Machining &amp; Fabrication</td>
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<td>TAE207</td>
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<td>TAE208</td>
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<td>TAE300</td>
<td>Digital Electronics (PLTW)</td>
<td>Junior Year</td>
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<td>TAE302</td>
<td>Architectural Drafting &amp; Design</td>
<td>Junior Year</td>
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<tr>
<td>TAE304</td>
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<td>Junior Year</td>
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<td>TAE305</td>
<td>Consumer Automotive</td>
<td>Junior Year</td>
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<td>TAE306</td>
<td>Building Construction I</td>
<td>Junior Year</td>
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<td>TAE403</td>
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<tr>
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<td>Civil Engineering &amp; Architecture (PLTW)</td>
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</table>

R = Required course at indicated grade level  
E = Elective course at indicated grade level
TAE101 – Woodworking I
Credits: 0.50
Grades: 9-12

This semester long course is designed to teach students proper use of hand, cordless, portable, and stationary power tools with a strong emphasis on safety. Students will learn how to use layout tools and measure accurately using standard feet and inches. Each student will use these skills and tools to produce a minimum of three projects accurately according to a bill of materials, step by step procedures, and working drawings. Students will benefit from this class by learning many basic woodworking concepts that are used in trades and industrial careers.

TAE103 – Drafting I / AutoCAD
Credits: 0.50
Grades: 9-12

A semester course that introduces the student to drafting fundamentals. Concepts in mechanical drafting include single, multi-view, and isometric drawings. Computer-Aided Drafting (CAD) is incorporated into this beginning drafting class. Students must complete Drafting I plus Drafting II or Interior Design Course and earn a B or better in both classes in order to receive 3 credits through Gateway.

TAE105 – General Metals
Credits: 0.50
Grades: 9-10

A semester long course introducing students to metal working and fabrication techniques. Students will study the use of hand and machine tools, metallurgy, sheet metal and bench metal fabrication, and fastening techniques.

TAE106 – Power Mechanics
Credits: 0.50
Grades: 9-12

A semester long course designed to develop an understanding of internal combustion engine systems. Tools, terms, and engine rebuilding techniques will be examined. Students will study engine theory in the classroom, and put that theory into practice in the lab area. Students will rebuild a Briggs & Stratton lawnmower engine, which they must furnish, during the semester.

TAE107 – Introduction to Engineering Design (PLTW)
Credits: 1.00
Grades: 9-12
Laude Points: 2
College Credit: T/PLTW

Designed for 9th or 10th grade students, the major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community. This is the prerequisite for Principles of Engineering (POE).

TAE202 – Drafting II / AutoCAD
Credits: 0.50
Grades: 9-12
Prerequisites: TAE103 – Drafting I / AutoCAD
Laude Points: 2
College Credit: T

A semester course designed to more extensively develop drafting concepts learned in Drafting I. Drafting II uses CAD extensively to focus on 2D multi-view drawings, isometric drawing, and 3D modeling.

TAE203 – Powersports Mechanics
Credits: 0.50
Grades: 10-12
Prerequisites: TAE106 – Power Mechanics

A semester course involving the study, repair, and maintenance of gas powered equipment and powersports. Areas of study include: Engines, chassis design, and power trains. Students will supply their own project.
TAE204 – Woodworking II
Credits: 0.50
Grades: 9-12
Prerequisites: TAE101 – Woodworking I; Juniors and Seniors are exempt from pre-requisite with instructor approval

This semester long course is designed to introduce advanced woodworking techniques, machinery, and basic design. Woodworking II will reinforce the vocabulary and techniques presented in Woodworking I, using a hands on experience focusing on building projects while developing craftsmanship. This course allows organized, self-motivated, responsible students to capitalize on the important skills of successful trades people while preparing for more advanced courses of study.

TAE205 – Welding: MIG/TIG
Credits: 0.50
Grades: 10-12
Prerequisites: TAE105 – General Metals
Laude Points: 2
College Credit: T

A semester long course focusing on the methods and technical welding skills used in the manufacturing and construction trades. Students will study and practice Metal Inert Gas (MIG) and Tungsten Inert Gas (TIG) welding processes and procedures. Print reading and welding set-up procedures will also be a focus of this course.

TAE206 – Machining & Fabrication
Credits: 0.50
Grades: 10-12
Prerequisites: TAE105 – General Metals

A semester course that focuses on the methods and skills used in the metal machining and fabrication industry. Students will study and practice milling, drilling, turning, and grinding techniques. Equipment set up, print reading and precision measurement will also be the focus of this course.

TAE207 – Principles of Engineering (PLTW)
Credits: 1.00
Grades: 10-12
Prerequisites: TAE107 – Introduction to Engineering Design (PLTW) with a grade earned of a C or better.
Laude Points: 2
College Credit: T/PLTW

This is the second level in the Project Lead the Way program. The course helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes helps students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change. Students can also receive college credit from Gateway Technical College.

TAE208 – Welding: Stick/Oxy Fuel
Credits: 0.50
Grades: 10-12
Prerequisites: TAE105 – General Metals
Laude Points: 2
College Credit: T

A semester long course focusing on the methods and technical welding skills used in the manufacturing and construction trades. Students will study and practice Shielded Metal Arc Welding (stick), oxyacetylene, and plasma cutting. Print reading and welding set-up procedures will also be a focus of this course.
TAE209 & MTH204 - Geometry in Construction
Credits: 2.00
Grades: 9-10
Prerequisites: Algebra

Geometry in Construction is an interdisciplinary course that combines Geometry with Construction through the building of a significant construction project. The purpose of the course is to provide students an opportunity to learn Geometry by directly applying the concepts to a real world construction project, while providing students with a better understanding of both the Geometry and the Construction content through the combination of the academic and work-world contexts. The Geometry content matches that of the other Geometry courses taught in the Mathematics Department, and prepares students for the subsequent Algebra 2 courses. Students will be exposed to and gain hands-on experience in job site safety and the phases of residential construction. Additional emphasis given to teamwork, problem-solving, and the promotion of STEM education. Students earn credit for Geometry and Construction in this double-period course co-taught by a Math instructor and a Construction instructor.

TAE300 – Digital Electronics (PLTW)
Credits: 1.00
Grades: 10-12
Prerequisites: TAE107 – Introduction to Engineering Design (PLTW)
Laude Points: 2
College Credit: T/PLTW

A yearlong course in the study of electronic circuits that are used to process and control digital signals. Digital Electronics is the foundation of all modern electronic devices. This course will expose students to the design process of combination and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Students can also receive college credit from Gateway Technical College.

TAE301 – Advanced Drafting / AutoCAD
Credits: 0.50
Grades: 11-12
Prerequisites: TAE202 – Drafting II / AutoCAD

This one semester course is designed for juniors and seniors to apply the skills obtained in Drafting I and II through team design projects. Students will design solutions to given or discovered problems and create 3D assembly models using Autodesk Inventor. Designs will then be 3D printed to further understand part interaction, tolerance, fit, and clearance. Time and complexity permitting, students will then fabricate working prototypes using equipment available in the other Technology and Engineering labs. All designs will require students to create a fully dimensioned complete set of working drawings complying with ANSI drawing standards from which the item could be manufactured. This course is only available 2nd semester and to juniors and seniors that have taken Drafting I and II or Introduction to Engineering and Design (PLTW).

TAE302 – Architectural Drafting & Design
Credits: 0.50
Grades: 9-12
Prerequisites: TAE103 – Drafting I / AutoCAD

A semester course that introduces students to the use of Autodesk Revit to create architectural drawings for residential and light commercial construction. Students will learn the basic tools that are provided in Revit as well as how to customize Revit for specific architectural applications.
TAE303 – Cabinet & Furniture Design & Construction
Credits: 1.00  
Grades: 11-12  
Prerequisites: TAE204 – Woodworking II

This year long course is a practical application of design and construction of modern or contemporary furniture and cabinetwork. This course will reinforce the vocabulary and techniques presented in Woodworking 1 & 2. The course will capitalize on the use of hands on experience with millwork materials and the safe application of advanced woodworking techniques and processes. During the course, each student will individually design and construct their own projects with an emphasis on developing craftsmanship. This course allows organized, self-motivated, responsible students to capitalize on the important skills of successful trades people.

TAE304 – Advanced Metals
Credits: 0.50  
Grades: 10-12  
Prerequisites: TAE205 Welding MIG/TIG

A semester of practical experiences in the care and use of metal working tools and machines. Emphasis will be placed on the design and production of metal products using machine tools, hand tools, and various forming processes. MIG, TIG, and stick welding processes will also be emphasized. Along with blueprint reading and the development of general shop skills that are needed for a career in the metals and fabrication field.

TAE305 – Consumer Automotive
Credits: 0.50  
Grades: 10-12

A semester long course introducing students to basic maintenance and repair of passenger vehicles. Students will also learn about automotive insurance and purchasing strategies in order to be an educated consumer. Students will be required to have a driver’s license and access to a vehicle for lab activities. Lab fees to cover the cost of parts and supplies may be necessary.

TAE306 – Building Construction I
Credits: 1.00  
Grades: 10-12  
Prerequisites: TAE101 – Woodworking I

This yearlong course is designed to teach students the phases of residential construction from site preparation to finish/trim carpentry. Units will be presented in a logical order. The major sections of study will be Estimation and Print Reading; Preparing to Build; Footings and Foundations; Framing; Closing in the Structure; Mechanical Systems; Finish; and Careers in the Trades and Construction Industry. Each of the major sections will be broken down into easy to understand units, taught with multimedia, lecture, written assignments, and hands on lab activities. There will be a focus on the vocabulary and the processes used in the construction industry.

TAE402 – Building Construction II
Credits: 1.00  
Grades: 11-12  
Prerequisites: TAE306 Building Construction 1

This year long course is designed to be advanced study of residential construction systems reinforcing the vocabulary and techniques presented in Building Construction I. The class will be a hands on experience focusing on building projects while meeting client expectations. This course allows organized, self-motivated, responsible students to capitalize on the important skills of successful trades people while preparing for a career in the construction industry.
**TAE403 – Automotive Service Fundamentals**
Credits: 0.50  
Grades: 10-12  
Prerequisites: TAE106 – Power Mechanics  
Laude Points: 2  
College Credit: T

A semester long course designed as an introduction to the automotive service technology and heavy truck repair career path. This class will provide an automotive curriculum that could be used in post-secondary education. This course is geared toward those students that have a desire to continue their education in the automotive field. Automotive theory, diagnostics, troubleshooting, service, and repair will be included in the curriculum of this course. Lab activities will consist of maintenance and service performed by entry-level technicians and will be performed on student and customer supplied vehicles.

**TAE404 – Automotive Electrical & Electronic Systems**
Credits: 0.50  
Grades: 10-12  
Prerequisites: TAE403 – Automotive Service Fundamentals  
Laude Points: 2  
College Credit: T

A semester long course designed as a continuation of the automotive service technology and heavy truck repair career path. This class will provide an automotive curriculum that could be used in post-secondary education. This course is geared toward those students that have a desire to continue their education in the automotive field. The theory of operation and servicing of electrical and electronic systems in automotive applications will be included in the curriculum of this course. Lab activities will consist of electrical testing, repairs, and service performed by entry-level technicians and will be performed on student and customer supplied vehicles.

**TAE405 – Civil Engineering & Architecture (PLTW)**
Credits: 1.00  
Grades: 10-12  
Prerequisites: TAE107 – Introduction to Engineering Design (PLTW)  
Laude Points: 2  
College Credit: T/PLTW

Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. In addition, students use 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects. This course is designed for 11th or 12th grade students. Students can also receive college credit from Gateway Technical College.

**TAE406 – Engineering Design & Development (PLTW)**
Credits: 1.00  
Grades: 11-12  
Prerequisites: Intro to Engineering Design & Principles of Engineering  
Laude Points: 2  
College Credit: T/PLTW

This class mimics the actual practice of engineering, is open ended and offers a framework for integrating several disciplines while maintaining the rigors of scientific inquiry. Like engineers in the real world, teams of students work on a project that synthesize science, mathematics, technology, economics, management, and communication. Each team applies engineering analysis and experimentation to a real world problem by designing and constructing a prototype of a unique device. As they move through the design process, they consider not only the scientific and mathematical requirements of the problem, but also the social, economic, environmental and ethical issues. This is the capstone course for the Project Lead the Way Program. Students can also receive college credit from Gateway Technical College.
WORLD LANGUAGE
Department Course Offerings (Freshman Year)

WDL101
Spanish I (E)

WDL102
German I (E)

WDL412
German American Partnership Program
GAPP (E)

FRESHMAN YEAR

R = Required course at indicated grade level  E = Elective course at indicated grade level
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WDL101 – Spanish I
Credits: 1.00
Grades: 9-12

A year study of the language through reading, writing, listening and speaking. Emphasis is on vocabulary and the foundational grammatical structures of the language. Students will learn about the culture and history of Spanish speaking countries. Emphasis is on Mexico and South America. The target language is used as much as possible.

WDL102 – German I
Credits: 1.00
Grades: 9-12

A year study of the language through reading, writing, listening and speaking. Emphasis is on vocabulary and the foundational grammatical structures of the language. Students will learn about the culture and history of German speaking countries. The target language is used as much as possible.

WDL201 – Spanish II
Credits: 1.00
Grades: 9-12
Prerequisites: WDL101 – Spanish I

A year long course of the language with emphasis on speaking and use of correct grammar and vocabulary. The Spanish language is spoken by the teacher and the students.

WDL202 – German II
Credits: 1.00
Grades: 10-12
Prerequisites: WDL102 – German I

A year study of the language through reading, writing, listening, and speaking. Students will develop survival speaking skills and a good overall knowledge of German life after completing this course. German is spoken by the teacher and the students.

WDL301 – Spanish III
Credits: 1.00
Grades: 10-12
Prerequisites: WDL201 – Spanish II

This year long course will place emphasis on speaking and comprehension. Students will use all tenses and begin the subjunctive mood. There will be a study of Spanish literature and history. The class will be entirely in Spanish.

WDL302 – German III
Credits: 1.00
Grades: 11-12
Prerequisites: WDL202 – German II

A year study of the language in which advanced grammar concepts are introduced, reading and writing is emphasized, and communication between teacher and students is in German.

WDL401 – Spanish IV
Credits: 1.00
Grades: 11-12
Prerequisites: WDL301 – Spanish III

This class offers an intensive study of the Spanish language using grammar. Students will further their proficiency by reading novels, writing, listening, and speaking. The year prepares students for the college placement exam. Everyone uses the target language. Credits: 1.00
Grades: 11-12
Prerequisites: WDL301 – Spanish III

WDL402 – German IV
Credits: 1.00
Grades: 12
Prerequisites: WDL302 German III

A year study of the language in which advanced grammatical concepts are reviewed. Reading, writing and listening skills will be improved. The year prepares students for the college placement exam. The target language is emphasized.
**WDL404 – Spanish for Health Care**
Credits: 0.50
Grades: 11-12
Prerequisites: 1st semester of WDL301 – Spanish III

This semester long course would focus on preparing students to use the Spanish language in their future health care careers. Students will learn vocabulary to discuss many medical topics including systems of the body, medical procedures, and illnesses. There is a strong emphasis on usage of the language in practical medical situations.

**WDL412 – GAPP**
Credits: 0.25
Grades: 9-12

This is your chance to visit another country. In order to participate you must start German as a freshman or sophomore. GAPP is an exchange program between students from Wilmot and St. Katarina Gymnasium in Oppenheim, Germany. This is an opportunity to learn about the German culture and people outside of the classroom. By attending monthly meetings before the trip, students will learn about cultural differences and survival speaking skills that they will then use while in Germany. Three weeks are spent hosting a German student (usually in September and October), and three weeks are spent in Germany (usually in June and July). A culminating project will be finished upon completion of this experience.

**WDL500 – Spanish V**
Credits: 1.00
Grades: 12
Prerequisites: WDL401 Spanish IV

In this year-long course, students will further their communicative competency through a variety of conversational and listening activities. Students will also further develop their reading and writing skills using authentic materials which explore the diversity of the Spanish speaking world.