

# AMERY HIGH SCHOOL

Course Selection Book



**2024-2025**

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## Introduction

This publication was prepared for you and your parents/guardians to help you select courses which will prepare you for your future whether you decide to enter the work force, a two-year vocational/technical college, or a four-year college. If you would like further information about what specific courses you need for specific career areas or for certain college programs, please see your school counselor.

To be on the Honor Roll, your term GPA needs to be 3.75 or higher for A Honor Roll, and 3.0 or higher to be on B Honor Roll.

## Required Courses:

### Grade 9

|  |     |
|--|-----|
| English 9  | 1.0 |
| Health 9   | .5  |
| World History & Civics   | 1.0 |
| Integrated Science   | 1.0 |
| Phy. Ed. 9   | .5  |
| Mathematics-- Choice of:<br>Pre-Algebra, Algebra I or Geometry | 1.0 |

### Grade 10

|  |     |
|--|-----|
| English 10                                 | 1.0 |
| Social Studies-US History or AP US History | 1.0 |
| General Biology                            | 1.0 |
| Mathematics-Choice                         | 1.0 |

### Grades 11 and 12

**English**-You must complete **2** additional English credits after English 9 and 10, options on pages 16-17.

**Must complete 1 credit of the following:** American Lit 1 or 2 OR Academic Reading and Writing OR AP American Literature.

**Must complete 1 credit of:** Either additional English electives or one additional credit of the English courses listed above.

**Complete third credit of math, science, and social studies.**

### High School Graduation Requirements:

|                      |             |                  |           |
|----------------------|-------------|------------------|-----------|
| English              | 4 credits   | Social Studies   | 3 credits |
| Mathematics          | 3 credits   | Science          | 3 credits |
| Phy. Ed.             | 1.5 credits | Health           | .5 credit |
| Careers & Technology | .5 credit   | Personal Finance | .5 credit |

**Total Credits Required for Graduation: 28 Credits**

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## Equivalency Courses at Amery High School

The following business and agriculture courses count for credit in a core area instead of elective credit. For the agriculture courses listed below they count as science credit and for the business courses listed below they count as social studies credit. The code of ES or ESS will follow the name of the course on your transcript if it is an equivalency course. Please note each course listed below is worth 0.50 credits.

**Science Equivalency Courses-ES** Students will receive science credit upon successful completion of these courses:

Equine Science AGR077, Horticulture I AGR036, Horticulture II AGR042, Large Animal/Dairy Science, AGR066, Small Animal Science AGR076 and Veterinary Science AGR074.

**Social Studies Equivalency Courses-ESS** Students will receive social studies elective credit upon successful completion of these courses:

Business Law BUS255, General Business & Economics BUS225, Personal Finance BUS269

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# Laude Grading System

The laude points system replaces the class rank system. Students will earn laude points for the rigorous coursework which they take as students at Amery High School. Laude points will determine a student's academic standing at Amery High School. Laude points will be factored into a student's GPA each term, for passing grades earned. Students who have completed high school with academic honor will be recognized with one of the following laude distinctions at graduation:

|                 |                      |                                   |
|-----------------|----------------------|-----------------------------------|
| Summa Cum Laude | "with highest honor" | Cumulative GPA of 4.250 or Higher |
| Magna Cum Laude | "with great honor"   | Cumulative GPA of 4.100 to 4.249  |
| Cum Laude       | "with honor"         | Cumulative GPA of 3.95 to 4.099   |

## Level Four (5.0 GPA)

AP Biology  
 AP Calculus AB I  
 AP Chemistry  
 AP Computer Sci Principles  
 AP English Lit & Comp  
 AP Physics C: Mechanics  
 AP Psychology  
 AP Statistics  
 AP US Gov't & Politics  
 AP US History

## Level Three (4.75 GPA)

Academic Reading & Writing  
 Advanced Independent Art  
 Agriculture Career & Student Dev. III  
 Chemistry  
 French IV/V  
 Horsemanship III  
 Horticulture II  
 Jazz Band (3<sup>rd</sup> & 4<sup>th</sup> years)  
 Physics  
 Pre-Calculus  
 Spanish IV/V  
 Veterinary Science

## Level Two (4.5 GPA)

Accounting  
 Adobe Photoshop  
 Advanced Algebra II  
 Advanced Desktop publishing  
 Agriculture Career & Student Dev. II  
 Astronomy  
 Anatomy, Physiology & Disease C.  
 Band and Concert Choir (3<sup>rd</sup>/4<sup>th</sup> years)  
 Business Law  
 Ceramics III  
 Child Services  
 Construction Framing I  
 Contemporary US History  
 Cooking and Catering I/II/III  
 Developmental & Abnormal Psychology  
 Desktop Publishing  
 Drawing III  
 Economics  
 Entrepreneurship I/II  
 Foods & Nutrition  
 French III  
 General Psychology  
 Graphic Design III  
 Horsemanship I/II  
 Information Processing III  
 IT Essentials I & Program Logic  
 Jazz Band (2<sup>nd</sup> year)  
 Marketing I/II  
 Medical Terminology  
 Microsoft Office II/III  
 Painting III  
 Personal Finance  
 Photography III  
 Principles of Engineering  
 Print Reading for Building Construction  
 Sculptures & Metals III  
 Small Animal Science II  
 Sociology  
 Spanish III  
 Technical College Math  
 Web Design II  
 Welding I/II

## Level One (4.25 GPA)

Advanced Woodworking  
 Agriculture Career & Student Dev. I  
 Algebra II  
 Architecture & Design II  
 Band and Choir (2<sup>nd</sup> year)  
 Ceramics II  
 Child Development  
 Clothing and Vinyl Design  
 Creative Writing  
 Drama  
 Drawing II  
 Employability Skills & Success Strat.  
 Equine Science  
 Food Culture & Cooking  
 Food Science Made Fun  
 French II  
 Freshwater Ecology  
 Game Design  
 Graphic Design II  
 Horticulture I  
 Independent Reading  
 Information Processing II  
 Intro to Computer Sci. & Program.  
 Jazz Band (1<sup>st</sup> year)  
 Landscape Design II  
 Large Animal/Dairy Science  
 Literature in Sports  
 Microbiology  
 Microsoft Office I  
 Mythology  
 Natural Resource/Wildlife Mgmt. II  
 Outdoor Adventure Education  
 Painting II  
 Photography II  
 Public Speaking & Communication  
 Sculptures & Metals II  
 Small Animal Science I  
 Spanish II  
 Web Design I  
 Weight Training & Fitness II/III  
 World Literature

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|           | 5.000 GPA Level 4 | 4.750 GPA Level 3 | 4.500 GPA Level 2 | 4.250 GPA Level 1 | 4.00 GPA No Level |
|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>A</b>  | 5.000             | 4.750             | 4.500             | 4.250             | 4.00              |
| <b>A-</b> | 4.584             | 4.355             | 4.125             | 3.896             | 3.667             |
| <b>B+</b> | 4.166             | 3.958             | 3.750             | 3.541             | 3.333             |
| <b>B</b>  | 3.750             | 3.563             | 3.375             | 3.188             | 3.000             |
| <b>B-</b> | 3.334             | 3.167             | 3.000             | 2.834             | 2.667             |
| <b>C+</b> | 2.916             | 2.770             | 2.625             | 2.479             | 2.333             |
| <b>C</b>  | 2.500             | 2.375             | 2.250             | 2.125             | 2.000             |
| <b>C-</b> | 2.084             | 1.980             | 1.875             | 1.771             | 1.667             |
| <b>D+</b> | 1.666             | 1.583             | 1.500             | 1.416             | 1.333             |
| <b>D</b>  | 1.250             | 1.188             | 1.125             | 1.063             | 1.000             |
| <b>D-</b> | 0.834             | 0.792             | 0.750             | 0.709             | 0.667             |
| <b>F</b>  | .000              | .000              | .000              | .000              | .000              |

## College Credit Options

### Start your future now!

Earn college credits at Amery High School

#### AS (Advanced Standing)

Upon enrollment in a technical college after high school graduation, the student is awarded college credit for the course(s) taken in high school that they have successfully completed. Successful completion means earning a specific letter grade in the course, the high school instructor will provide the letter grade requirement to the student in class. All Wisconsin technical colleges will accept advanced standing from another technical college if the course is comparable to competencies and credits awarded at the second technical college.

#### DC (Dual Credit)

High school students can earn free postsecondary credit for successfully completing college level courses taught at their high school. Successful completion means earning a specific letter grade in the course, the high school instructor will provide the letter grade requirement to the student in class. A transcript is awarded from the technical college that documents the credits awarded for the course. The student earns both high school and college credit at the same time. Dual credit courses may potentially transfer not only to other technical colleges but may also potentially transfer to some public and private 4-year colleges.

#### DACP (Dual Academic Credit Program)

Students may elect to earn both college credits and high school credits simultaneously, providing them with an opportunity to earn UW River Falls credit taught at the high school. Upon successful completion of the course, students will be awarded credits that count towards both high school and university requirements. Students must meet the criteria set by UWRF in order to take the course as DACP and also pay a fee, \$105 per credit, or \$55 per credit if student is free/reduced lunch eligible. DACP credits may potentially transfer to other 4 year colleges/universities.

You can earn college credits while in high school. The chart on the next page shows the Amery High School Courses that are transcribed (dual credit) with NTC and CVTC and the DACP program with UW River Falls. This means the courses taught at Amery High School are the same as the courses taught at these post secondary institutions. Students who successfully complete a AS/DC/DACP course can earn post secondary credit by registering for the post secondary credits during the course.

These credits can be applied to NTC/CVTC/UWRF Programs or can potentially be transferred to other institutions. Each student will receive an official transcript showing the courses and corresponding grades (upon request). For DC and AS, the grade earned on the high school transcript may differ from the grade earned on the technical college transcript due to the higher grading scale standard. For DACP courses, the grade earned at AHS is the same grade you will earn on your UWRF transcript.

For more information about NTC: <https://www.northwoodtech.edu/admissions/preparing-for-college/credit-for-prior-learning/start-college-in-high-school>

For more information about CVTC: <https://www.cvtc.edu/admissions/college-credit-opportunities-in-high-school>

For more information about UWRF: <https://www.uwrf.edu/admissions/high-school-credit-options>

To see if the credits transfer, use Transferology: <https://www.transferology.com/state/wisconsin.htm>



## Earn College Credits at Amery High School

The chart below shows the Amery High School courses that are advanced standing or dual/transcripted credit with Northwood Technical College (NTC), Chippewa Valley Technical College (CVTC) and UW-River Falls (UWRF).

| Dept.                                | Amery High School Course   | Northwood Tech. Chippewa Valley Tech. or UW River Falls Course Title               | AS = Advanced Standing, DC = Dual Credit or DACP-Dual Academic Credit Program |
|--------------------------------------|--|--|---|
| Business and Information Technology  | Business Law   | Business Law 10105125  | 3 Dual Credits at Northwood Tech.   |
|                                      | Adobe Photoshop  | Adobe Photoshop 10103156   | 2 Advanced Standing Credits at Northwood Tech.                                |
|                                      | Desktop Publishing   | Desktop Publishing 10106127  | 2 Advanced Standing Credits at Northwood Tech.                                |
|                                      | Entrepreneurship   | Introduction to Business 10151100  | 3 Advanced Standing Credits at Northwood Tech.                                |
|                                      | Information Processing II  | Document Formatting 10106110   | 2 Dual Credits at Northwood Tech.   |
|                                      | IT Essentials I  | IT Essentials & Security 10150139  | 2 Dual Credits at Northwood Tech.   |
|                                      | Program Logic  | Program Logic 10152135<br>*case by case basis dependent upon certifications earned | 3 Dual Credits at Northwood Tech.   |
|                                      | Marketing Principles I & II  | Marketing Principles 10104102  | 3 Dual Credits at Northwood Tech.   |
|                                      | MS Office I  | MS Word A 10103146<br>MS Excel A 10103151  | 2 Advanced Standing Credits at Northwood Tech.                                |
|                                      | MS Office II   | MS Word B 10103147<br>MS PowerPoint 10103106                                       | 2 Advanced Standing Credits at Northwood Tech.                                |
|                                      | Personal Finance   | Personal Finance 10114125  | 3 Dual Credits at Northwood Tech.   |
| Web Design I                         | Web Design & Development 10152101  | 3 Dual Credits at Northwood Tech.  |   |
| English                              | Academic Reading & Writing   | ENGL 100 Academic Reading & Writing  | 3 DACP Credits at UW River Falls.   |
| Family and Consumer Sciences         | Child Development  | ECE: Infant & Toddler Development 10307151   | 3 Advanced Standing Credits at Northwood Tech.                                |
|                                      | Child Services   | ECE: Foundations of Early Childhood Education 10307148                             | 3 Advanced Standing Credits at Northwood Tech.                                |
|                                      | Foods and Nutrition  | Nutrition 316-130  | 2 Dual Credits at Chippewa Valley Tech.                                       |
|                                      | Cooking and Catering I   | Food Theory 316-101  | 3 Dual Credits at Chippewa Valley Tech.                                       |
| Math                                 | *Technical College Math  | Applied Technical Math I 32804325  | 3 Dual Credits at Northwood Tech.   |
|                                      | AP Statistics  | MTH 225 Elementary Statistics  | 4 DACP Credits at UW River Falls.   |
|                                      | AP Calculus AB I   | MTH 165 Calculus I with Early Transcendentals                                      | 4 DACP Credits at UW River Falls  |
| Science                              | Medical Terminology  | Medical Terminology 10501101   | 3 Dual Credits at Northwood Tech.   |
|                                      | Astronomy  | PHYS 117 Basic Astronomy   | 3 DACP Credits at UW River Falls.   |
|                                      | Anatomy, Physiology, and Disease Concepts  | Anatomy, Physiology & Disease Concepts 10510135                                    | 2 Dual Credits at Northwood Tech.   |
|                                      | Physics  | PHYS 114 Conceptual Physics  | 3 DACP Credits at UW River Falls.   |
|                                      | AP Physics C: Mechanics  | PHYS 131 Calculus Based Physics  | 5 DACP Credits at UW River Falls  |
| Social Studies                       | AP Psychology  | PSYC 101 General Psychology  | 3 DACP Credits at UW River Falls.   |
| Technology and Engineering Education | Welding for Mechanics  | Welding for Mechanics 32442307   | 2 Dual Credits at Northwood Tech.   |
|                                      | *Construction Framing I  | Construction Framing I 32410303  | 4 Dual Credits at Northwood Tech.   |
|                                      | *Print Reading for Building Construction   | Print Reading for Building Construction 32410339                                   | 2 Dual Credits at Northwood Tech.   |
|                                      | *Successful completion of these three courses allows a student to earn a Construction Essentials Embedded Technical Diploma from Northwood Technical College |  |   |

# Career & Technical Education (CTE) Academies and Youth Apprenticeship

## What is a CTE Academy?

An academy combines classroom instruction with hands-on work. The goal is to help prepare students for post-secondary training and future employment. Students in academies will be applying their knowledge and skills to operate school-based businesses in each of the CTE areas. Students can find academy opportunities in the following departments: Agriculture, Business & Information Technology, Family Consumer Sciences, and Technology and Engineering. Students interested in academies should enroll in the classes listed in the chart below; in addition, there will also be independent courses within Agriculture, Business and Information Technology and Family Consumer Sciences, known as CTE Career & Leadership courses, where student can pursue leadership roles and additional academy coursework.

| Department                                   | Academy Focus                    | Classes                                    |
|--|----------------------------------|--|
| <b>Agriculture &amp; Natural Resources</b>   | Growing & Selling Foods & Plants | Aquaculture & Hydroponics                  |
| <b>Business &amp; Information Technology</b> | Entrepreneurship "Shark Tank"    | Entrepreneurship/Desktop Publishing        |
| <b>Business &amp; Information Technology</b> | Marketing & Promotions           | Marketing/Web Design                       |
| <b>Business &amp; Information Technology</b> | Create Yearbook                  | Yearbook I, II & III                       |
| <b>Family &amp; Consumer Sciences</b>        | Food Cooking & Catering          | Catering                                   |
| <b>Family &amp; Consumer Sciences</b>        | Fashion Construct & Sell Product | Vinyl and Clothing Design I/II             |
| <b>Technology &amp; Engineering</b>          | Building & Selling a House       | Understanding Construction/Building Trades |

## CTE Career and Leadership Classes:

CTE career and leadership classes are one or two term independent courses that emphasize the entrepreneurial spirit and focus on academy related topics in the areas of agriculture, business, and family and consumer science. Students in these courses will work closely with their instructors and may take on leadership positions within the academies. Students will be scheduled individually and will earn elective credits. In addition, students will need to go through an application process to enroll in a career and leadership course and should seek out the CTE instructor in the department area they wish to take this class in.

### AGR300/301 Agriculture CTE Career & Leadership

This is an independent course where students will work on projects in the agricultural field that teach about running your own business. These projects are Student Based Learning programs and are designed to be maintained and enhanced by the students. Students approved for this course will care for the plants or animals, design new programs of study, maintain what has already been started and enhance the program, maintain a budget for projects and the care of the plants and animals. The Agricultural CTE program has opportunities in the following areas: Fresh Water Tanks, Salt Water Tanks, Horsemanship, Small Animals/ Veterinary Science, Greenhouse Management, Leadership – FFA – Parliamentary Procedure Website. (Other programs of study could be started depending on the interests of the students. New programs of study must be proposed and approved by the agriculture instructor.)

See Derrick Meyer for more information.

### BUS295/296 CTE Business Academy Leadership Yearbook

Student will need instructor consent and complete a CTE Leadership Application. Students will take photos, edit photos and create the AHS yearbook: The American

### BUS300/301 Business CTE Career & Leadership

This is an independent course that focuses on Entrepreneurship and Marketing. Students will assist the other CTE Academies and work on projects utilizing skills in business and marketing. Examples of projects include: collecting marketing research, creating marketing plans, designing marketing materials (print and video), working with social media, photography, developing and maintaining websites, handling public relations, and other projects as needed. There are also opportunities for students to start and manage their own businesses.

See Ramona Lockwood and/or Mike Rose for more information.

### FCE300/301 FCS CTE Career & Leadership

This is an independent course where students will show their leadership skills by using previous knowledge obtained from Family Consumer Science classes. Students in the catering area will be exploring food production, testing recipes and catering to area businesses and the Amery community. Students in the fashion area will be working with our embroidery machine, t-shirt press, vinyl cutter and heat press to construct and sell products.

See Emily Larson for more information.

### BUS275 Youth Apprenticeship

Grades 11-12                      1-2 Years                      Credits Vary

This course is a one or two-year course which combines school course work with paid work experience. Students must apply and interview for the program. If selected, specific courses must be taken in school. Students must be available to work 3 – 4 hours per day. Part of the school day can be used to go to work (usually 4<sup>th</sup> Block). Students are paid wages by the employer for the work experience portion of this program and must follow employer guidelines and the school policies/activity code.

After successful completion of program requirements, students will earn a certificate from the Department of Workforce Development.

**Required:** At least two terms of related instruction – Employability Skills and Careers and Technology. Other courses are recommended based on the area of study.

#### Youth Apprenticeship Options:

|  |                        |
|--|------------------------|
| Agriculture                            | Information Technology |
| Finance                                | Manufacturing          |
| Health Science                         | Transportation         |
| Hospitality & Tourism                  |                        |
| Science Tech Engineering & Math (STEM) |                        |

# Agriculture & Natural Resource

## **AGR024 Agriculture Career and Student Development I (L1)** **AGR026 Agriculture Career and Student Development II (L2)** **AGR027 Agriculture Career and Student Development III (L3)**

Grades 9-12                      1 Year                      ½ Credit

**This course will be offered as a Zero-hour course that will run all school year: M-W-F 7:15-7:50 am**

*Prerequisite:* Students must successfully complete Level I prior to taking Level II; complete Level II prior to taking Level III.

FFA is one of America's best training grounds for leadership development. Its primary purpose is to serve young people who are interested in the broad spectrum of agricultural careers. This class will help each student realize that education can be fun because they will be learning by doing. The student will get a chance to be in charge of a major FFA event, a wide variety of competitive events from public speaking to agri-marketing to fairs and shows. Throughout the class each student will be sharpening their individual skills in leadership and have an opportunity to put them to use by becoming involved in school and community projects.

## **AGR088 Aquaculture and Hydroponics**

Grades 9-12                      1 Term                      ½ Credit

This course introduces students to beginning aquaculture/hydroponics concepts, techniques and practices. Science inquiry and principals are used to examine common fish health issues, habitat needs, water quality requirements, basic plumbing, laboratory analysis and treatments. We will also learn about many systems of hydroponics, aeroponics and vertical farming.

## **AGR075 Careers & Technology**

Grades 10-12                      1 Term                      ½ Credit

In this course you will engage in career planning and goal setting for your future while utilizing MSOffice and other technologies. You will create an individualized learning plan (career pathway/map) to help you schedule the appropriate courses in high school that can help you achieve your career goals. The xello website will be used to complete self-assessments and research career options. You will complete a job shadow to see firsthand what skills are needed in the workplace, create job campaign materials (Job application, resume, cover letter, follow up letter, reference list), participate in mock job interviews with local employers, and compile a portfolio of artifacts to use when interviewing for scholarships, jobs, or post-secondary programs.

## **AGR077 Equine Science (L1)**

Grades 9-12                      1 Term                      ½ Science Credit

The horse is an important animal to millions of Americans. This course is designed to explore the world of the horse. The student will learn to appreciate and understand why the horse is more popular today than years ago when the horse was the primary means of labor and transportation. Units that will be covered are history and development, feeding, breeding, health, breeds,

classes, horse behavior, horsemanship and management. Students will have the opportunity to gain hands-on experience with these magnificent animals. Horse care, handling and introduction to ground work will be conducted at a local stable.

## **AGR014 Horsemanship I (L2)** **AGR018 Horsemanship II (L2)** **AGR019 Horsemanship III (L3)**

Grades 9-12                      1 Term                      ½ Credit

*Prerequisite:* Equine Science first or at the same time; For Level II, complete Level I; For Level III, complete I and II.

Humans have been fascinated by the behavior of animals for as long as they have co-existed on Earth. Our relationship with the horse has evolved into a special bond which has no equal with other domesticated animals. This class is designed to explore that new science of animal behavior, or understanding how horses react, and why they do what they do. The student will have the opportunity to work one on one with a weaning. Their charge will be to learn and understand horse psychology, and to then train horses using natural horsemanship methods. Levels II and III will be advanced work. You will get more challenging horses and will be expected to teach skills and methods of training.

## **AGR036 Horticulture I (L1)**

Grades 9-12                      1 Term                      ½ Science Credit

One of the most rapidly growing areas in the field of agriculture is that of horticulture. Horticulture is a course designed to provide the student with a basic knowledge in the cultivation, processing and sales of fruits, nuts, vegetables, ornamental plants and flowers. As an industry, it contributes over 50 billion dollars to the United States economy every year. This new found interest in horticulture is due in large part to an increasing awareness on the part of the general public, as people look inward at a need to be closer to nature, and as they discover the beauty and satisfaction plants provide for them. The student will have an opportunity to conduct scientific experimentation in plant propagation methods using our greenhouse.

## **AGR042 Horticulture II (L3)**

Grades 10-12                      1 Term                      ½ Science Credit

*Prerequisite:* Successfully complete Level I prior to taking Level II.

This is an advanced horticulture class designed to further the student's knowledge in the fascinating world of horticulture. Students will study in more detail the operations and complete system of a modern greenhouse. Students will also explore in great detail various greenhouse production crops like Poinsettias, Easter Lilies, and Chrysanthemums. Finally, the class will be required to develop a small-scale production business designed to cover all aspects of a modern greenhouse production operation.

**AGR045 Landscape Design I****AGR055 Landscape Design II (L1)**

Grade 9-12                      1 Term                      ½ Credit

*Prerequisite: Successfully complete Level I prior to taking Level II.*

The individual who pursues a career in landscaping must be trained to meet the challenge of satisfying the needs of the people without harm to others or the environment. The response to that challenge will be taught to students as they are directed to an understanding of what constitutes a high quality landscape design in the classroom and then be able to physically bring to completion those principles by an on-site landscape project. Level II students will have more assignments and will be in charge of the landscape site as foreman and supervisors.

**AGR066 Large Animal/Dairy Science (L1)**

Grade 9-12                      1 Term                      ½ Science Credit

The course is designed to teach about the large animal industry. There is much which is new and exciting in the field of large animals. More research is being conducted in this area than any other animal area in the United States. Students will cover the following areas in dairy, beef and other large animals: history, development, feeding, breeding, health, psychology, behavior, training and judging. Special units in the new field of biotechnology will also be covered including cloning, embryo transfer, and artificial insemination. The majority of the time will be spent on Dairy Science, but other areas of science will be covered.

**AGR051 Natural Resource/Wildlife Management I****AGR061 Natural Resource/Wildlife Management II (L1)**

Grade 9-12                      1 Term                      ½ Credit

*Prerequisite: Successfully complete Level I prior to taking Level II.*

This course will examine how America's resources provide aesthetic, scientific, and economic benefits. Units of study include wildlife management and forestry as they apply to maintaining a proper environment. Special areas of interest will be using the nature laboratory, field trips, and taxidermy, and a segment of time will be spent creating an individual project that will be the students' donation to our natural resources. Level II students will have more projects and will be in charge of part of the forest restoration projects we have going on in the school forest.

**AGR076 Small Animal Science I (L1)****AGR086 Small Animal Science II (L2)**Grades 9-12                      1 Term                      Level I: ½ Science Credit  
Level II: ½ Agriculture Credit*Prerequisite: Successfully complete Level I prior to taking Level II.*

Small animals are special creatures, whether they are a dog, cat, rabbit, or any of a dozen other companion animals which people adopt and promise to care for and love. This class is designed to explore the world of these lovable creatures. People with special knowledge and skill in working with small animals are in constant need and the employment opportunities are wide open. This class is designed to be a pre-veterinarian, or a pre-technician course, studying the care and management involved in many of the small animals of our area. Level II students will be managers of animals, will have more projects including training of animals. Students will expand on what they learned and advance their skills with handling and caring for small animals.

**AGR074 Veterinary Science (L3)**

Grades 9-12                      1 Term                      ½ Credit

*Prerequisite: Must pass with a "B" or better in one of the animal science courses (Small Animals, Large Animals or Equine Science) before taking this course.*

This class is designed as an advanced study of the animal sciences. This includes the large and small animal areas. Students will gain a deeper understanding of veterinary techniques including: artificial insemination, embryo transfer, and genetic engineering, giving shots and even suturing. A computer laboratory will be used as it relates to the care and management of these animals. Activities will include laboratory exercises, field trips, guest speakers, and a block of time devoted to constructing a special animal care project.

# Art

## ART200 Advanced Independent Art (L3)

Grades 11-12 1 Term ½ Credit

**Class fee: \$10.00**

*Prerequisite:* Levels I-III in an area of specialization: Ceramics, Drawing, Graphic Design, Painting or Sculpture & Metals and Photography.

Advanced Independent Art is a course giving students the opportunity to continue their studies at a more advanced level in an artistic specialization of their choice. Student work will focus on three areas of exploration: Quality, Breadth and Concentration. Students will develop a personal artist statement and create work suitable for a college-entry level portfolio. Students MUST obtain an Independent Study Application from their school counselor BEFORE requesting this course.

## ART105 Ceramics I, ART092 Ceramics II (L1) and ART093 Ceramics III (L2)

Grades 9-12 1 Term ½ Credit

**Class fee: \$10.00**

*Prerequisite:* For Ceramics III, C- or better in Ceramics II.

Ceramics is a course for anyone who loves clay. Ceramics I concentrates on pinch/coil, slab, wheel throwing and sculpture. Ceramics II will have more advanced requirements for the projects assigned. In Ceramics III you will learn how to load and unload the kiln, pug clay, and create projects based on your area of interest. The history of ceramic art will be studied as well.

## ART160 Computer Arts and Animation

Grades 9-12 1 Term ½ Credit

**Class fee: \$10.00**

Students will use a variety of software to learn basic tools and techniques for creating and manipulating images and transforming ideas into artwork. Still renderings and short animated sequences will be created with an emphasis on creativity, originality and experimentation. This course will also investigate the impact of visual communication in our history, culture and values. Technology that may be incorporated includes Adobe Illustrator, Photoshop and Flash and online offerings such as StickAnimator, Media Player and Prezi.

## ART111 Drawing I, ART182 Drawing II (L1) and ART183 Drawing III (L2)

Grades 9-12 1 Term ½ Credit

**Class fee: \$10.00**

*Prerequisite:* For Drawing III, C- or better in Drawing II.

Drawing is the most fundamental aspect of art. In this course students will learn drawing skills that will allow them to express their ideas visually. They will use a variety of materials that may include pencil, charcoal, colored pencil, pastels, and ink as they draw from reference images, direct observation, and imagination. Drawing II and III students will be challenged to continue building their skills and create a portfolio of more advanced works of art.

## ART115 Graphic Design I, ART172 Graphic Design II (L1) and ART173 Graphic Design III (L2)

Grades 9-12 1 Term ½ Credit

**Class fee: \$10.00**

*Prerequisite:* For Graphics III, C- or better in Graphics II.

Graphics classes will explore both traditional and contemporary media. Projects will focus on both consumer-related art as well as fine art. Traditional work will include drawing, printmaking, and photography. Students will spend most of their time learning computer-based programs such as Adobe PhotoShop. The upper-level courses will concentrate on advanced designs. This course is well-suited for those interested in Graphic Design as a career choice.

## ART118 Painting I, ART152 Painting II (L1) and ART153 Painting III (L2)

Grades 9-12 1 Term ½ Credit

**Class fee: \$10.00**

*Prerequisite:* For Painting III, C- or better in Painting II.

Painting I will focus on color theory and the process of painting with expression and realism. A variety of surfaces and paint will be explored including tempera, watercolors and acrylic on canvas. Important artists and movements throughout history will be studied. Painting II and Painting III students will be encouraged to find their voice and style as they use their skills to create original paintings.

## ART102 Photography I, ART192 Photography II (L1) and ART193 Photography III (L2)

Grades 9-12 1 Term ½ Credit

**Class fee: \$10.00**

*Prerequisite:* For Photography III, C- or better in Photography II.

The level one photography course will focus on the technical use of the 35mm DSLR camera, techniques of making strong and effective compositions, and the history of photography. Upper level students will be challenged to build on their technical and compositional skills and develop and enhance professional presentation of photographs, including printing, matting and displaying.

## ART130 Sculpture & Metals I, ART142 Sculpture & Metals II (L1) and ART143 Sculpture & Metals III (L2)

Grades 9-12 1 Term ½ Credit

**Class fee: \$10.00**

*Prerequisite:* For Sculptures & Metals III, C- or better in Sculpture & Metals II

In this class students will create realistic and abstract three-dimensional works of art utilizing the subtractive and additive processes of carving, modeling, construction, and assemblage. Students will learn and practice the basic techniques involved in creating jewelry pieces such as cutting, filing, soldering, and stamping metal. Inspirational sculptors, art works and themes in sculpture will be explored. Metal, stone, clay, wood, wire, and cardboard are some of the media that may be used to create original sculptures in this class.

# Business & Information Technology



**NTC Credit Courses: Earn college credit by taking these specially labeled courses. See Page 8 for details.**

## **BUS205/206 Accounting (L2)**

Grades 10-12      2 Terms      1 Credit

Accounting is the study and preparation of financial records used in business. Students will learn the basic accounting concepts and career options. Some of the topics covered are the accounting equation, ethics in accounting, financial statements, annual reports, and investment ratios. The three types of business activities financing, operating, and investing will be reinforced through the class. Practice exercises will give the students actual accounting experience creating balance sheets, income statements, statements of cash flows and retained earnings statements. This will help prepare them for entry-level accounting positions or for further study in accounting.

## **BUS290 Adobe Photoshop (L2) (NTC Credit)**

Grades 9-12      1 Term      ½ Credit



Do you enjoy taking and editing photos? Students will explore Adobe Photoshop software to edit and manipulate photos and graphics. The course combines learning to use the software with hands-on projects. This course will practice skills in creating photo slideshows, layout/design, creativity, critical thinking, advertising/marketing, and planning as they apply to business photos/graphics.

## **BUS291 Advanced Desktop Publishing (L2)**

Grades 9-12      1 Term      ½ Credit

Prerequisite: Successfully complete Desktop Publishing

Do you enjoy being creative? Students will use Adobe InDesign and Adobe Illustrator software to create a variety of documents including: flyers, business cards, posters, and magazine covers. The course combines learning to use the software with hands-on projects. This course will practice skills in layout/design, creativity, critical thinking, advertising/marketing, and planning as they apply to business documents

## **BUS225 Business & Economics Concepts**

Grades 9-12      1 Term      ½ Soc Credit

This course provides you with a general background in economic concepts including: the global economy, measuring economic performance, how the private enterprise system works, social/ethical responsibilities of business, economic challenges facing business, the global economy, the role of government in our economy, and money & financial institutions. Business and economic concepts are applied to real-life projects. You will learn about the stock market and participate in a 9-week stock market simulation online. Computers are used to explore and solve business issues in our society.



## **BUS255 Business Law (L2) (NTC Credit)**

Grades 9-12      1 Term      ½ Soc Credit

This course provides the student with foundational information about the U.S. legal system and dispute resolution, and their impact on business. The major content areas will include general principles of law, the relationship of business and the U.S. Constitution, state and federal legal systems, the relationship between law and ethics, contracts, sales, intellectual property, and business law in a global context. Students will also experience the court system through a field trip to the Polk County Justice Center.

## **BUS075 Careers & Technology**

Grades 10-12      1 Term      ½ Credit

In this course you will engage in career planning and goal setting for your future while utilizing MSOffice and other technologies. You will create an individualized learning plan (career pathway/map) to help you schedule the appropriate courses in high school that can help you achieve your career goals. The xello website will be used to complete self-assessments and research career options. You will complete a job shadow to see first-hand what skills are needed in the workplace, create job campaign materials (job application, résumé, cover letter, follow up letter, reference list), participate in mock job interviews with local employers, and compile a portfolio of artifacts to use when interviewing for scholarships, jobs, or post-secondary programs.

## **BUS286 Desktop Publishing (L2) (NTC Credit)**

Grades 9-12      1 Term      ½ Credit



In this course you will create professional looking documents using desktop publishing software. Projects include: posters, brochures, packaging labels, and others. Graphic Design principles will be discussed and applied to documents.

## **BUS218 Employability Skills & Success Strategies (L1)**

Grades 9-12      1 Term      ½ Credit

Employers are seeking people who have developed both technical skills and human relations skills. This course will expose you with the skills and attitudes necessary for rewarding employment. Business and human relations concepts are applied to work situations. Topics include: accepting personal responsibility, discovering self-motivation, mastering self-management, employing interdependence, gaining self-awareness, and adopting life-long learning

## **BUS221 Entrepreneurship I (L2) (NTC Credit)**

Grades 9-12      1 Term      ½ Credit



This course is developed to provide students with the general skills and knowledge necessary to own and operate a small business. Throughout the course students will have opportunities to apply business concepts to realistic decisions made daily in small businesses. Students will get a chance to create their own business plan. Computers are used for research and documentation of issues affecting entrepreneurs.

### **BUS222 Entrepreneurship II (L2)**

Grades 9-12                      1 Term                      ½ Credit

*Prerequisite:* Successfully complete Entrepreneurship I.

Students will revise and update their business plans, create a website for their business, design marketing materials, and pitch their idea to local business professionals. There will be time for students to work on their own business and help with the school based enterprises.

### **BUS219 Game Design (L1)**

Grades 9-12                      1 Term                      ½ Credit

This course is designed for students interested in the gaming industry. It is intended to provide students with the understanding and skills necessary to design, develop, test and refine video games. It will include reading, writing, designing, some programming and some testing. Students will take apart video games to find out what makes them tick and use that knowledge to build their own.

### **BUS241 Information Processing I**

Grades 9-12                      1 Term                      ½ Credit

Students develop speed and accuracy using the touch operation of alphanumeric keyboard characters. Topics: simple proofreading, operation of computer equipment/software, review of language skills through compositions, and formatting of business documents (letters, reports, memos, and tables), and a brief introduction to the correct use of the 10-key numeric pad. Students will complete an office simulation as a final project.

### **BUS242 Information Processing II (L1) (NTC Credit)**

Grades 9-12                      1 Term                      ½ Credit



*Prerequisite:* Successful completion of Information Processing I.

As a continuation of Information Processing I this course reinforces speed and accuracy at the keyboard. Microsoft Word software is used to produce more detailed documents with more complex formatting including reports, outlines, tables, letters, memos, agendas, minutes, itineraries, mail merges, and labels. Simulations are used to make this course more realistic. A unit on the 10-key numeric pad will be included. Microsoft Excel software will be introduced and used to create business documents.

### **BUS243 Information Processing III (L2)**

Grades 10-12                      1 Term                      ½ Credit

*Prerequisite:* Successfully complete Information Processing I & II.

This course is a continuation of Information Processing II with continuous reinforcement of speed and accuracy at the keyboard. Microsoft Office software is used to produce a variety of business documents and forms. There is an integration of Word, Excel, Access, and PowerPoint applications with emphasis on business applications. This course will also include a unit on the correct use of the ten-key numeric keypad.

### **BUS284 IT Essentials I (L2) (NTC Credit)**

Grades 10-12                      1 Term                      ½ Credit



This course will introduce many of the basic and advanced concepts, issues, and techniques related to the job of an IT (information technology) Professional. Students will learn about various types of hardware, software, networking, and security. The following concepts will be taught: terminology, components of a personal computer, components of a laptop computer, various other portable IT devices, installation of operating systems and software, installation and maintenance of a printer/scanner, set up of a network, and data and hardware security. The course will include a number of labs both virtual and hands on. Students will deconstruct and reconstruct both a personal computer and laptop computer. Through the use of a virtual machine students will install an operating system, printer/scanner, and network with security features. Students will have the option of taking the IT Essentials: PC Hardware and Software certification test through CISCO.

### **BUS202 Marketing Principles I (L2)**

### **BUS207 Marketing Principles II (L2)**

**(Complete Both for NTC Credit)**

Grades 9-12                      1 Term                      ½ Credit



This course focuses on the marketing process as it relates to the operation of a business enterprise. The intent is to provide students with an understanding of how the marketing function fits within the overall structure of the organization. Special attention is given to the role and significance of evaluating customer needs, pricing, distribution, and promotion of products and services. \*Students must take Marketing Principles I and II to receive dual credits.

### **COM340 Microsoft Office I (L1) (NTC Credit)**

Grades 9-12                      1 Term                      ½ Credit



In this course students will use Microsoft Word, Excel, Power Point, Access, and Outlook to create word processing documents, databases, spreadsheets, and presentations. Students will also learn how to integrate those applications. A brief introduction to desktop publishing and Publisher may also be included.

### **COM341 Microsoft Office II (L2) (NTC Credit)**

Grades 9-12                      1 Term                      ½ Credit



*Prerequisite:* Successfully complete Microsoft Office I.

This course is a continuation of the Microsoft Office I course. Students will do more advanced projects using Word, Excel, Access, and PowerPoint and will complete more advanced integration projects. Students will use the Internet to import data and graphics into documents. This course will also include a brief unit on using Microsoft Outlook to schedule and maintain personal records. Students may be eligible for receiving the Microsoft Office User Specialist (MOUS) certification.

### **COM339 Microsoft Office III (L2)**

Grade 10-12                      1 Term                      ½ Credit

*Prerequisite:* Successfully complete Microsoft Office I and II.

This course will expand on the uses for the Microsoft Office Suite. This is a senior level capstone course and will be tailored to each student. The course will cover the use of Word, Excel, Access, PowerPoint, Publisher, and Outlook. Students will create a professional graduation invitation, database of addresses, mail merge for mailing labels, senior video of themselves with video and music (to play at graduation parties), create a calendar of dates and a task list, and update their career portfolios (resume, letters of recommendation, application letters, references, and other items needed for applying for jobs and college admission). In addition, students will use GoogleDocs to complete a simulation and learn methods for storing the above data to the cloud. Students may be eligible for receiving the Microsoft Office User Specialist (MOUS) certification.

### **BUS227 Multimedia & Computer Technology**

Grades 9-12                      1 Term                      ½ Credit

Students in this course will work with software, hardware, and computer technology. Each week of the course will cover a new unit. Software such as Photoshop (image editing), Premiere (video editing), Office Applications (Word, Excel, & Power Point), Game Design software, Basic Programming software, and computer hardware, software, and security will be explored

### **BUS269 Personal Finance (L2) (NTC Credit)**

Grades 10-12                      1 Term                      ½ Soc. Credit



This course will help you improve your financial literacy. Students will learn about their financial responsibilities and how to manage their money. Topics covered include: goal setting, career planning and college research, employee pay and benefits, budgeting, comparison shopping, banking services, credit management, saving and investing, housing options, and insurance. Some activities include: learning to balance a checkbook, preparing taxes, creating a budget and cash flow statement, participating in the virtual stock exchange, and preparing an amortization schedule for a loan. As a final project students will create a personal financial planning portfolio.

### **BUS287 Program Logic (L2) (\*NTC Credit)**

Grades 10-12                      1 Term                      ½ Credit



*Prerequisite:* C or higher in Advanced Algebra II

In Program Logic, students learn to develop clear consistent strategies to create computer-programming solutions. Students analyze problems, review requirements, develop test plans, and then create solutions. Students learn to focus on understanding the logic behind each solution. Students also learn the proper use data types, variables and variable scope, as well as, methods, decision structures and repetition structures. The course emphasizes programming logic using the JAVA programming language and students develop working computer programs.

\*Case by case basis dependent upon certifications earned.

### **BUS231 Video Production**

Grades 9-12                      1 Term                      ½ Credit

In this course the students will begin to understand the field of video production. This class will explore digital equipment and video camera techniques. Students will be able to use this knowledge to produce video productions. Students will also explore careers in production of communications.



### **BUS213 Web Design I (L1) (NTC Credit)**

Grades 9-12                      1 Term                      ½ Credit

*Prerequisite:* Complete Algebra I with a "C" or better.

Students will plan and develop well-designed websites that combine effective navigation and a balanced use of text, images, and color. Emphasis is on understanding HTML5, Cascading Style Sheets (CSS), accessibility, and responsive Web design. Students will also be introduced to media queries, CSS Flexbox and CSS Grid to create responsive websites that are easily viewable across a wide range of devices. Students will deploy a web site to a web server using FTP.

### **BUS212 Web Design II (L2)**

Grades 10-12                      1-4 Terms                      ½ Credit

*Prerequisite:* Successfully complete Web Design I

This course will expand on the concepts, issues, and techniques related to designing and developing websites introduced in Web Design 1. By the end of the course students will have the skills to create professional, up-to-date websites that are pleasing to the eye and easy to use.

### **BUS270-273 Work Experience (Terms 1-4)**

Grades 11-12                      1-4 Terms                      ½ Credit per term

*Prerequisite:* Employability Skills & Success Strategies and Careers & Technology should be taken before or during the internship.

This course allows students to work in the community while earning high school credit during the school day. A limited number of students work for local cooperating businesses. The program is school supervised and the employment serves as a means of acquiring desirable work habits and attitudes. Students will be required to have a job to stay in the course and provide their own transportation. Students enrolled in this course are eligible to earn the Wisconsin DPI Employability Skills Certificate, which certifies employment competencies in several areas.

### **BUS296 Yearbook Editor Independent Study**

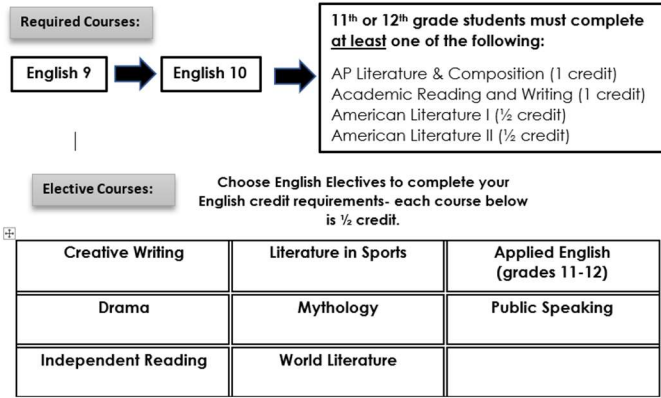
Grades 10-12                      1 Term                      Credits Vary

**Instructor Consent Needed – Must have completed the CTE Leadership Application**

Students in this course will create the high school yearbook, the American. The course includes taking digital photos, writing captions and editing. The yearbook is produced using an online software program. In addition, students will learn how to use photo editing software to enhance digital images.



# English



## Required Courses:

Students must successfully complete 4 credits of English in order to fulfill graduation requirements.

### ENG425/426 English 9

Grade 9 2 Terms 1 Credit

English 9 is a course that will introduce and enlighten high school freshmen about various genres of literature. Freshmen will also explore and learn the basic principles of the writing process through daily writing activities. In addition to discovering and improving their writing skills, the students will also sharpen their vocabulary, grammar, and reading skills through their writing experiences.

### ENG430/431 English 10

Grade 10 2 Terms 1 Credit

*Prerequisite:* Passing grades in English 9.

English 10 is a course that allows students to develop their communication skills of reading, writing, speaking, and listening. For example, students will improve their writing skills through frequent practice and use of the writing process. In addition, students will read and interpret various forms of literature including novels, short stories, drama, and nonfiction. Students will also refine their public speaking and research skills through a project that culminates in an oral presentation.

### ENG439 American Literature I

Grades 11-12 1 Term ½ Credit

*Prerequisite:* Passing grades in English 9 and English 10.

Students will study **classic** works of drama, fiction, and nonfiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character. Throughout the course, students will work to improve vocabulary, usage, grammar, and research skills.

### ENG440 American Literature II

Grades 11-12 1 Term ½ Credit

*Prerequisite:* Passing grades in English 9 and English 10.

Students will study **modern/contemporary** works of drama, fiction, and nonfiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character. Throughout the course, students will work to improve vocabulary, usage, grammar, and research skills.

### ENG480/481 AP English Literature and Composition (L4)

Grades 11-12 2 Terms 1 Credit

*Prerequisite:* Students must have a Grade Point Average (GPA) of "B+" or better in prior English courses.

*Note:* Amery High School reserves the right to limit class size in this course. Should class size be limited, GPA, prior English courses taken and writing scores will be used to determine class placement.

This course engages students in the careful reading and critical analysis of imaginative literature through close reading of American and British novels, drama and poetry. Students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students will consider a work's structure, style and themes, as well as the use of figurative language, imagery, symbolism, and tone. Writing is an integral part of this course and focuses on the critical analysis of literature with expository, analytical, and argumentative essays. This course is designed to offer students the opportunity to take the AP English Literature & Composition exam, which may enable students to earn college credit. Students are expected to commit themselves to this intensive study course, which includes reading two novels over the summer break.

### ENG485/486 Academic Reading & Writing (L3)

(UWRP Credit via DACP)

Grades 11-12 2 Terms 1 Credit



*Prerequisite:* Students must have taken American Literature I or II or AP Literature prior AND earned a minimum of "B" average in all previous English courses.

*Note:* Class sections are limited to 25 students. Any cutoff decisions will be made using students' GPA's, prior course grades, and writing scores.

Students will learn to comprehend, interpret, and analyze oral, written and visual communication; to effectively communicate ideas related to a broad range of subjects; to express ideas in a variety of formats; and to use MLA documentation. This course will be taught at a college level for transferrable credit.

## English Electives:

### **ENG464 Applied English**

Grades 11-12                      1 Term                      ½ Credit

Prerequisite: Passing grades in English 9 and English 10.

This course will focus on scholarship applications and essays, the college application process, writing a resume and cover letters, job applications, and a contemporary work of literature. Through the units listed above, students will refine their writing and overall communication skills.

### **ENG458 Creative Writing (L1)**

Grades 9-12                      1 Term                      ½ Credit

\*\* (Course will be offered every other year, next in 2025-2026)

This course focuses on the exploration and craft of creative writing in its various forms: stories, creative nonfiction narratives, dramatic scripts, and more. Students will use the writing process to address different topics in a variety of formats and genres. Students will become familiar with literary terms as well as techniques and tools essential to effective writing. The coursework will culminate in a written portfolio that showcases the students' best work.

### **ENG414 Drama (L1)**

Grades 9-12                      1 Term                      ½ Credit

\*\* (Course will be offered every other year, next in 2024-2025)

This course is designed to allow students to further their interests in drama/theater. The course will examine classical and modern drama as forms of literature as well as a means of expressing oneself. Students may participate in activities such as pantomime, improvisation, storytelling, and oral interpretation, in addition to script reading, writing, performing, and evaluating. An integral part of the course involves attending one or more live theater performances. Students will be required to pay for costs involved (approximately \$10 - \$30). \*\*\*\*This course does not produce the school play. \*\*\*\*

### **ENG471 Independent Reading (L1)**

Grades 9-12                      1 Term                      ½ Credit

\*\* (Course will be offered every other year, next in 2025-2026)

The purposes of this class include the following: to enable students to select and read books independently, to expose students to a wide variety of authors and types of literature, and to offer students opportunities to share what they have read through oral and written communication. A classroom paperback library containing a variety of contemporary best sellers and classics is available for student use. The course will also address various literary topics and reading skills based on students' needs. Some of the student's class time is spent reading from selections of the student's choice. Each student has periodic private conference time with the teacher to discuss books being read. Projects, written journal entries, and oral class reports are expected as well as the reading of some required classic literature.

### **ENG465 Literature in Sports (L1)**

Grades 9-12                      1 Term                      ½ Credit

\*\* (Course will be offered every other year, next in 2024-2025)

Students will engage, read, and respond to various types of literature associated with the realm of sports. Additionally, students will learn the basics of sports journalism – developing sound interview questions, learning interviewing and note-taking skills, and writing different types of sports stories. Using what they have learned throughout the course, students will end the course by responding to this overarching question: What impact does the role of sports have on society? Students will write a detailed, persuasive essay as their final assignment.

### **ENG452 Mythology (L1)**

Grades 9-12                      1 Term                      ½ Credit

Join the adventure as we learn about the ancient Greek world, its gods, goddesses, heroes, monsters, and supernatural creatures. Read the most famous myths, the story of the Trojan horse, a Greek tragedy, and THE ODYSSEY, the most famous adventure story in the world. Course work includes reading, taking notes, and informal presentations.

### **ENG454 Public Speaking & Communications (L1)**

Grades 9-12                      1 Term                      ½ Credit

Public speaking is a one-term course designed to give students opportunities to develop themselves as communicators in public situations. Students will present individual informative, persuasive, and special occasion speeches. Group activities and presentations such as debate will be covered. Students will also get the opportunity to practice performing arts such as drama, and oral interpretation.

### **ENG460 World Literature (L1)**

Grades 9-12                      1 Term                      ½ Credit

Throughout this course we will read various translated novels from other parts of the world. An important goal of the class is to promote an understanding of other cultures and the enduring human values which unite us all through different works of literature. The course work will involve students analyzing literature for theme and structure; discussing, comparing, and writing about notable works and authors. Some works we will study are *Things Fall Apart* by Chinua Achebe, *Persepolis* by Marjane Satrapi, and *Chinese Cinderella* by Adeline Yen Mah. After the completion of each work, students will have the opportunity to explore these countries by trying various foods and celebrating their culture!

# Family & Consumer Sciences



NTC credit courses and CVTC CVTC credit

courses: See page 8 for details on earning college credit.

## **FCE518 Architecture and Design I**

### **FCE523 Architecture and Design II (L1)**

Grades 9-12 1 Term ½ Credit

**(Likely offered every other year, next in the 25-26 school year.)**

*Prerequisite:* Level II, passing grade in Architecture & Design I.

This is computer-aided design class is based on the fundamentals of interior design. Students will be designing all areas within the home, based on interior design standards. Areas of study include traffic patterns, color applications, blueprint reading, principles of design, housing styles and much more.

## **FCE075 Careers & Technology**

Grades 10-12 1 Term ½ Credit

In this course you will engage in career planning and goal setting for your future while utilizing MSOffice and other technologies. You will create an individualized learning plan (career pathway/map) to help you schedule the appropriate courses in high school that can help you achieve your career goals. The xello website will be used to complete self-assessments and research career options. You will complete a job shadow to see first-hand what skills are needed in the workplace, create job campaign materials (job application, résumé, cover letter, follow up letter, reference list), participate in mock job interviews with local employers, and compile a portfolio of artifacts to use when interviewing for scholarships, jobs, or post-secondary programs.

## **FCE506 Child Development (L1) (NTC Credit)**

Grades 9-12 1 Term ½ Credit



Parenting, child development, and child guidance are emphasized. This class also includes money management, time and stress management, and family crisis units.

## **FCE503 Child Services (L2) (NTC Credit)**

Grades 9-12 1 Term ½ Credit



*Prerequisite:* Child Development

This class will prepare the students for occupations in child care and guidance. Human relations, employability and career development skills will be stressed. Students in Grade 11-12 will have the opportunity to become certified as an assistant child care teacher and receive college credit for this class. Certification is NOT available for students in Grade 9-10.

## **FCE521 Clothing and Vinyl Design I**

### **FCE508 Clothing and Vinyl Design II (L1)**

Grades 9-12 1 Term ½ Credit

*Prerequisite:* Level II, passing grade in Clothing and Vinyl Design I.

**Level I:** Students will have the opportunity to use cutting-edge technology to explore consumer fashion habits, fabrics, and basic clothing construction by using the fashion design studio. The studio features a printer/vinyl/cutting machine which uses a CAD software program, embroidery machine, vinyl cutter, t-shirt press, sewing machines, and heat press. Students will be able to select an individual project to expand their knowledge.

**Level II:** Students will use their previous clothing and vinyl design skills to create individual projects. They will also have the opportunity to create design apparel for the Family and Consumer Science online store using the vinyl machine.

## **FCE512 Cooking and Catering I (L2) (CVTC)**

### **FCE513 Cooking and Catering II (L2)**

### **FCE514 Cooking and Catering III (L2)**

Grades 9-12 1 Term ½ Credit



*Prerequisite:* Foods I, Pastry and Desserts or Food Science

**Level I:** Breakfast foods, appetizers, soups, sandwiches, entrees, food garnishing and catering are topics we will explore.

Instructional and intensive laboratory experiences will include commercial and catering standards. Students will study and explore the purchasing, storage, and the service of food.

**Level II:** Students will use skills learned in Level I to make and create their own catering jobs.

**Level III:** will be filling catering orders and will have the responsibility of managing the kitchen for the Level I catering students.

## **FCE526 Food Science Made Fun (L1)**

Grades 9-12 1 Term ½ Science Credit

Is learning about the science of food important? It all depends on your answer to the following questions: Did you eat today and are you planning on eating tomorrow? How long did it take for you to make that product? What ingredients were in it? Food Science is one of the fastest growing career areas. It is also where the new and exciting jobs are being found. Not just any job...but jobs that pay well! Food Science and AgProcessing are the past, present and future of the food industry. This class will track food products from the farmer to the consumer as well as teach students about how that product is made so that it is exactly what the consumer wants. Students will investigate key players and trends in the food industry. We will be working with milk/dairy products, cereals, grains, fruit, vegetables, meat, poultry, eggs, fish, beverages and more. Students will also gain an understanding of food safety and careers in food science.

**FCE515 Foods and Nutrition (L2) (CVTC Credit)**

Grades 9-12                      1 Term                      ½ Credit



Foods and nutrition explores the responsibility of the family for helping its member's meet their food needs. Food-related goals, such as nutrition, availability, preparation, monetary and human cost, and safety are the emphasis of this course. Social and cultural foods will be explored.

**FCE535 Food Culture and Cooking (L1)**

Grades 9-12                      1 Term                      ½ Credit

*Prerequisite: Food Science Made Fun, Foods and Nutrition or Pastry and Desserts*

In Food Culture & Cooking, students will have the opportunity to study and prepare foods from various countries and cultures. Management of resources (energy, time, and money) will be stressed. Through the participation in various labs such as shellfish, beef, Mexican, Chinese, Italian, cakes, breads, pies, fudge/candy and others students will work cooperatively to practice resource management skills.

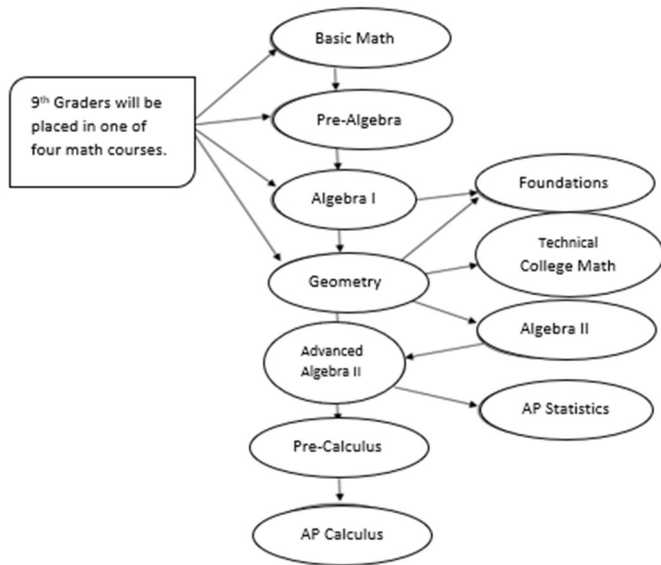
**FCE510 Pastry and Desserts**

Grades 9-12                      1 Term                      ½ Credit

Cheesecake, cookies, pies, chocolate mousse, tarts, croissants, ice cream and desserts from around the world will be explored in this class. Students will learn practical experiences in preparation of bakery items and merchandising of the product from the perspective of a baker or pastry chef.

# Math

Please refer to the flow chart below when selecting math classes. If you have questions, see one of the math teachers or the school counselors.



## **MTH340/341 Advanced Algebra II (L2)**

Grades 10-12      2 Terms      1 Credit

*Prerequisite:* Grade of "B" or better in Algebra I and Geometry

Advanced Algebra II is a continuation of Algebra I with greater emphasis on problem solving, solving equations and inequalities, using and rewriting formulas, and linear equations. Other topics studied include slope, relations, functions, equations of lines, systems of equations and inequalities, radicals, square roots, direct and indirect variations, and quadratic equations and their graphs. This class is strongly recommended for students who intend to take chemistry, physics, advanced math, or are interested in a career area where mathematics is required such as science, electronics, electricity, drafting, economics, psychology, or computer science.

## **MTH372/373 AP Statistics (L4) (UWRF Credit)**

Grades 10-12      2 Terms      1 Credit



*Prerequisite:* Advanced Algebra II

This course is an introduction to probability and statistics with emphasis on techniques and applications that are useful in business, engineering, social and biological sciences. Students will design, administer and tabulate results from surveys and experiments. Simulations will be used to model real life probabilities and the latest technologies will be used to investigate statistical concepts.

## **MTH300/301 Algebra I**

Grades 9-11      2 Terms      1 Credit

*Prerequisite:* Grade "C" or better within previous mathematics classes.

The main objective is to solve mathematical problems by writing and solving a number sentence. So that this objective can be achieved, other concepts like applying formulas, solving equations and inequalities, factoring, and graphing are discussed. Other practical concepts such as operations with fractions, ratios and proportions, area, volume, metric system, and percentages are also covered. Algebra is the initial course in the mathematics sequence. Those considering classes or career areas related to this area such as science, electronics, economics, drafting, or computer science are urged to enroll.

## **MTH308/309 Algebra II (L1)**

Grades 11-12      2 Terms      1 Credit

*Prerequisite:* Passing grades in Algebra I and Geometry

Algebra II is a continuation of Algebra I with greater emphasis on problem solving, solving equations and inequalities, using and rewriting formulas, and linear equations. Other topics studied include slope, relations, functions, equations of lines, systems of equations and inequalities, radicals, square roots, direct and indirect variations, and quadratic equations and their graphs. This class will have a slower pace and less depth than Advanced Algebra II and is recommended for those students who had some difficulty in the past with math classes. This course will not satisfy the prerequisite for Pre-Calculus.

## **MTH375/376 AP Calculus AB I (L4) (UWRF Credit)**

Grades 11-12      2 Terms      1 Credit



*Prerequisite:* Pre-Calculus I & II

AP Calculus AB I offers the same content as that which is in a first semester college calculus course, with problems and applications in related rates and motion. Applications are typically centered around science and business.

## **MTH385/386 AP Computer Science Principles (L4)**

Grades 9-12      2 Terms      1 Credit

*Prerequisite:* Successful completion of Algebra I

An AP course is a rigorous, college level course that will introduce students to the foundations of modern computing. The completion of several projects will be required. Some of the topics included are the Internet, algorithms, programming, big data, digital privacy and security, and societal impacts of computing. This is intended to be a first course in computing though students with computing experience will also find the course engaging. AP scores are based 40% on two submitted projects and 60% on an exam in May.

### **MTH316/317 Foundations of Math**

Grades 10-12                      2 Terms                      1 Credit

*Prerequisite:* Successful completion of Algebra I or Geometry

Foundations of Math is a semester course intended for students who are ready to apply their basic math skills. Topics covered include data analysis, equations, probability, graphing, basic geometry, basic algebra, and trig ratios.

### **MTH320/321 Geometry**

Grades 9-11                      2 Terms                      1 Credit

*Prerequisite:* Algebra I with a grade of "C-" or better

Geometry involves the study of two-dimensional and three-dimensional figures and their relationships. Students learn to form conjectures through inductive and deductive reasoning and apply them to real world situations. Besides mastering mathematical skills, emphasis is placed on problem-solving and communication.

### **MTH345/346 Introduction to Computer Science and Programming (L1)**

Grades 9-12                      2 Terms                      1 Credit

*Prerequisite:* Successful completion of Algebra I

This course introduces students to the foundations of modern computing. Some of the topics included are the Internet, algorithms, programming, big data, digital privacy and security, and societal impacts of computing. This is a hands-on course and all required work will be completed in class.

### **MTH280/281 Pre-Algebra**

### **MTH001/002/003/004 Pre-Algebra (skinny)**

Grades 9-11                      2 Terms                      1 Credit

*Prerequisite:* Consent of Guidance Office and/or Special Education Department

This course is designed to help students strengthen their basic math skills in preparation for taking Algebra I. Emphasis is placed on real-life applications of math, calculator use, simple algebra and problem solving techniques.

### **MTH338/339 Pre-Calculus (L3)**

Grades 10-12                      2 Terms                      1 Credit

*Prerequisite:* Algebra I, Geometry, and Advanced Algebra II. In order to take Pre-Calculus as a sophomore, you must have earned a B+ or higher in Advanced Algebra II.

Pre-Calculus is an in depth study of functions and their properties in preparation for more theoretical math courses including AP Calculus. These functions include linear, quadratic, rational, polynomial exponential, logarithmic and trigonometric. Students will practice graphing, solving, and analyzing each of these function families. Other topics of study include conic sections, polar coordinates, and sequences & series.

### **MTH318/319 Technical College Mathematics (L2) (NTC Credit)**



Grades 11-12                      2 Terms                      1 Credit

*Prerequisite:* Successful completion of 2 credits of Math

This course will focus on using a variety of math skills in applications that might be found in a technical college setting. These skills will include basic arithmetic including integers, fractions and decimals. Emphasis will be placed on using and manipulating formulas. Some introductory algebra, geometry and statistics will also be covered.

This course is one of three classes that students are required to take for NTC's Construction Essentials Program.

## Music

### Concert Choir

Course # MUS120, MUS121, MUS122 and MUS123  
 \*Laude I Course # MUS130, MUS131, MUS132 and MUS133  
 \*Laude II Course # MUS150, MUS151, MUS152 and MUS153

Grades 9-12                      Year                      ¼ Credit per Term

Concert Choir provides an advanced level of choral singing technique and performance literature. The group performs music of a wide variety of styles to give the singers a quality and educational choral experience. Concert Choir is involved in a minimum of five performances during the school year: Veterans Day, Christmas Concert, Large Group Contest, Fine Arts Concert, and Graduation. These performances are mandatory, and unexcused absences could result in removal from Concert Choir. Absences will be regarded as excused or unexcused at the discretion of the director.

### High School Band

Course # MUS116, MUS117, MUS118 and MUS119  
 \*Laude I Course # MUS160, MUS161, MUS162 and MUS163  
 \*Laude II Course # MUS170, MUS171, MUS172 and MUS173

Grades 9-12                      Year                      1 Credit per Year

*Prerequisite:* Students in district must have completed the middle school band curriculum. Students that transfer into the district in grades 9-12 must have consent of the instructor to join band.

Band is a 12-month program. It provides the instrumentalist with a music education through rehearsal and performance. The student gains both individual and group experience by performing for the school and community functions. The program is divided into two basic seasons - marching and concert. While members of the band, students have the opportunity to participate in pep band, jazz band, and instrumental contest.

### Jazz Band

**This course will be offered as a Zero-hour course that will run approximately 2 days per week from October to April. This will award students an additional ¼ credit per year.**

\*Laude I Course # MUS050  
 \*Laude II Course # MUS051  
 \*Laude III Course # MUS052

Sign up for this course by speaking with Mrs. Rhodes-Lundgren in the fall.

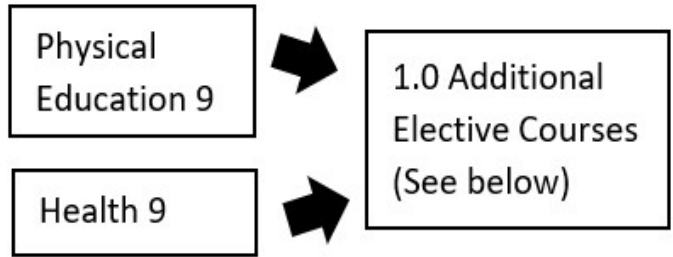
*Prerequisite:* Must be a member of concert band to be in Jazz Band.

\*Note about Laude Level for Band and Concert Choir:  
 Students in Band or Choir for 2 years will receive a Level 1 laude level credit. Students in Band or Choir for 3-4 years will receive a Level 2 laude level credit.

## Physical Education & Health

### Required Courses:

### Elective Courses:



### HLT211 Health 9

Grade 9                      1 Term                      ½ Credit

The approach to this Health class is a program of choices and wellness. This class includes the Major Public Health Problems such as drugs, suicide, eating disorders, communicable diseases, and sexually transmitted diseases.

### PED400 Phy Ed 9 (Full block) 1 term

### PED005/006 Phy Ed 9 (skinny) 2 terms

Grade 9                      1 Term                      ½ Credit

Areas covered are fitness, soccer, tennis, softball, badminton, pickle ball, ultimate team handball, and volleyball.

### PED003/004 General PE Skinny I

### PED007/008 General PE Skinny II

Grade 10-12                      1 Term                      ½ Credit

*Prerequisite:* PED400 or PED005/006

This is a general physical education class that is specifically for students who need a skinny opposite of band/choir or another skinny. A wide variety of activities are covered over this semester long course of 45 minute classes. Some examples are pickleball, volleyball, basketball, golf, softball, soccer, kickball, fitness, sportsmanship, walking, aerobics, dance, team building, games.

### PED405 Indoor Lifetime Activities

Grades 9-12                      1 Term                      ½ Credit

**Class Fee: \$40** (bowling & transportation costs)

*Prerequisite:* PED400

This is a general physical education class with an emphasis on indoor activities. Units: Bowling, Badminton, Pickle ball, Table Tennis, Weight Training/ Circuit Training/ Aerobics (lifetime focus).

### PED409 Indoor Team Sports

Grades 9-12                      1 Term                      ½ Credit

*Prerequisite:* PED400

This is a general physical education class with an emphasis on indoor activities. Units: Basketball, Handball, Volleyball, Speedball, Eclipse Ball, Weight Training, and Line Soccer.

### **PED408 Lifetime Fitness**

Grades 9-12                      1 Term                      ½ Credit

*Prerequisite:* PED400

This class is for the student that loves the benefits of physical activity but prefers low-impact activities in a non-competitive environment. This is a general physical education class with an emphasis on lifetime aerobic activity. Units: Walking, Weightlifting, Aerobics- step, yoga, and dance. Students enrolled in this class should have an excellent pair of shoes and be prepared to walk/jog outdoors in most weather conditions for 70 minutes a day. Students will be allowed to have walking partners and use headphones while exercising.

### **PED425 Outdoor Adventure Education (L1)**

Grades 10-12                      1 Term                      ½ Credit

**Class fee: \$40**

*Prerequisite:* PED400

Students will progress through an experientially based program that emphasizes interpersonal relationships and individual growth. This course encourages students to develop greater self-confidence and acquire a sense of trust and commitment in their classmates. Outdoor education is designed to expose students to a variety of outdoor skills; which may include: camping, backpacking, survival skills, hiking, fishing, archery, orienteering, canoeing, and kayaking. There will be an overnight backpacking trip one weekend of the term where the class will hike, camp, cook and sleep in the campsite we hiked into.

### **PED404 Outdoor Lifetime Activities**

Grades 9-12                      1 Term                      ½ Credit

**CLASS FEE: \$20** (transportation costs)

*Prerequisite:* PED400

This is a general physical education class with an emphasis on outdoor activities during the warm weather months. Units: Golf, Tennis, Softball, Disc Golf, Aerobics, and Lawn Games.

### **PED407 Outdoor Team Sports**

Grades 9-12                      1 Term                      ½ Credit

*Prerequisite:* PED400

This is a general physical education class with an emphasis on outdoor activities. Units: Ultimate, Flag Football, Lacrosse, Soccer, and Softball.

### **PED402 Weight Training and Fitness I**

Grades 10-12                      1 Term                      ½ Credit

*Prerequisite:* PED400

This is an advanced class for highly motivated students. Students in Weight Training and Physical Fitness will experience intense muscle pumping and heart pounding exercise. Students who are concerned about their physique, athletic performance and life-long health will find this class enlightening as they learn about:

- The components which make a person fit
- Muscular and skeletal anatomy and physiology
- Varied exercise methods
- The weight room and exercise equipment
- Correct weight lifting techniques
- And the incredible ability of the human body to grow stronger as it adapts to the physical burdens applied to it.

Weight Training students come away from this class with a new level of self-confidence and pride when they see the tremendous gains they make in just 9 weeks. This class is strongly recommended for athletes looking for a comprehensive introduction to training for athletic competition.

### **PED414 Weight Training and Fitness II (L1)**

### **PED422 Weight Training and Fitness III (L1)**

Grades 11-12                      1 Term                      ½ Credit

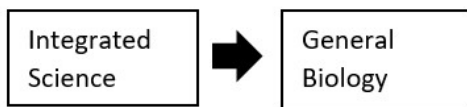
*Prerequisite:* PED402

This class is truly an advanced weight training course for only those students who have successfully completed PED402. Students enrolled in Weight Training II/III will experience the opportunity take the lifting experience program to an entirely top-notch level. Each student enrolled will be required to keep daily and weekly written body weights, nutrition logs, calorie counts, and percent body fat checks. This course is designed for the student/athlete who is truly concerned with their physical appearance, the improvement of athletic performance, and the overall improvement of their physical health. This class would be strongly recommended for those athletes looking to improve their strength and performance capabilities in athletic competition.

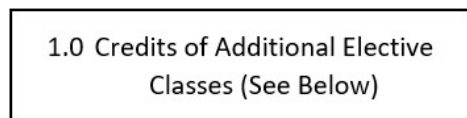


# Science

## Required Courses:



## Elective Courses:



**NTC or DACP Credit Courses:**  or . Earn college credit by taking these specially labeled courses. See Page 8 for details.

## Required Courses:

### SCI735/736 Integrated Science

Grade 9                      2 Terms                      1 Credit

Ninth grade science will bring together life, physical, earth, and space science. Topics will include: science as a process, food and nutrition-energy for living systems, energy in the physical world, earth's resources, and flight and space exploration. The purpose of this course is to show how the different sciences are related. For example, the understanding of chemical bonds can help us understand where energy comes from for us to live. The use of experiments, videos, and various forms of technology will be used to meet our goals for this course.

### SCI730/731 General Biology

Grade 10                      2 Terms                      1 Credit

Prerequisite: Successful completion of *Integrated Science*.

General biology is designed to expose students to the physical, chemical and behavioral processes that make life possible. Technological applications to this knowledge and its' potential impact on society will also be discussed. Hands-on and problem solving activities will be used to teach these concepts. The goal of the course is to address the following: (1) The interaction of organisms and their environment; (2) Heredity, reproduction and diversity; (3) Cells and cell processes; (4) Maintaining the necessary requirements for the life and health of an organism.

## Elective Courses:

### SCI798/799 Anatomy, Physiology and Disease Concepts (L2) (NTC Credit)

Grades 10-12                      2 Term                      1 Credit 

Prerequisite: Successful completion of *General Biology*

This course is a study of human anatomical structure, physiology, and the basic mechanisms of disease. It is designed to meet the

unique educational needs of the medical secretary/office personnel (medical transcription/medical coding). The course focuses on assessment, diagnosis and treatment of commonly occurring medical conditions. The course will be structured to application of the content through case studies and group discussions. It will provide a solid knowledge base for students entering work in health care settings. It is recommended that the student have a basic knowledge of medical terminology.

### SCI795/796 AP Biology (L4)

Grades 10-12                      2 Terms                      1 Credit

Prerequisite: Participants must meet 2 of the 3 following requirements: Obtain a B or higher in *Advanced Algebra II*, *General Biology* and/or *Chemistry*.

AP Biology is an advanced study of the biological sciences. This course is a must for anyone going into biology related careers or anyone going into the health sciences. In addition, if you plan to pursue college in a non-science area, passing the AP test would allow you to use those as science requirements. In this course we explore biochemistry, how cells get energy, advanced genetics, advanced ecology, and animal physiology. It will be laboratory extensive with the use of up-to-date equipment in the study of living systems Participation in the AP test is not required and is not the main emphasis of the course. However, students will be adequately prepared for the exam if they should choose.

### SCI780/781 AP Chemistry (L4)

Grades 11-12                      2 Terms                      1 Credit  
(Course will likely be offered every other year, next in 24-25)

Prerequisite: "B" or higher in *Chemistry*

AP Chemistry is a course that should be taken by students considering a career in a STEM (science, technology, engineering, and math) field, including all sciences and/or engineering, medical field or advanced agriculture fields. The emphasis of AP Chemistry is on problem solving and inquiry in the lab. The curriculum is based on these main ideas: structure of matter, bonding, chemical reactions, kinetics, thermodynamics, and chemical equilibrium. AP Chemistry follows the AP curriculum and will prepare the student for the AP exam.

### SCI785/786 AP Physics C: Mechanics (L4) (UWRF Credit)

Grades 11-12                      2 Terms                      1 Credit 

Prerequisite: B or higher in *Physics* or a C or higher in *AP Calculus*

This physics class is for students who are seriously considering pursuing careers related to physical science, engineering or mathematics. In addition, students enrolling in the course will have the opportunity to earn college credit by achieving a qualifying score on the AP physics exam or purchasing credits via DACP from UWRF. This course is designed to be nearly identical to a first semester university physics course for scientists and engineers. Topics for this course are: kinematics, Newton's laws, energy and power, rotational motion, collisions, harmonic motion and orbital mechanics.

### SCI715 Astronomy (L2) (UWRF credit)

Grades 9-12

1 Term

½ Credit



Prerequisite: Completion of Algebra I and Integrated Science

Astronomy is the study of what is beyond the surface of the Earth. From the moon to the solar system to our galaxy and beyond, we investigate what these objects look like, how they behave in their origin, and their ultimate fate. Simple equations are used in our calculations but knowledge of scientific notation and operation of scientific calculators is required. Notes, the Internet, book work and also the history of our investigations over the past years are used to investigate our world and the universe beyond. Manned and unmanned space missions are an integral part of our Internet study of the solar system.

### SCI750/751 Chemistry (L3)

Grades 10-12

2 Terms

1 Credit

Prerequisite: **Sophomore student:** Must have completed both Geometry and General Biology with a "B" or higher.

**Junior/Senior student:** Must meet one of the two following requirement options, not both:

Option 1: Must have completed Geometry with a "B" or higher and General Biology with a "C" or higher.

Option 2: Must have completed both Algebra II and General Biology with a "C" or higher.

This course is designed to give the students an adequate basis in inorganic chemistry. Emphasis is directed toward these concepts: matter and energy, measurement in chemistry, matter and its changes, atomic structure, arrangement of electrons in atoms, periodic law, chemical bonds, chemical composition, chemical equations, gas laws, molecular composition of gases, liquids-solids-water, solution process ionization, acid, bases and salts, acid-base titration, and oxidation-reduction reaction. With this background in chemistry the students will develop a sufficient understanding to meet their needs in introductory college courses. The course is laboratory extensive and is strongly suggested for students planning to attend college.

### SCI700 DNA Science

Grades 10-12

1 Term

½ Credit

Prerequisite: Successful completion of General Biology

DNA Science involves using our knowledge of the structure and function of the DNA molecule for the practical use of humankind. This course will take a brief look at the scientific discoveries that have led us to the place we are today and then focus on the techniques used to achieve these practical uses. The techniques involve culturing bacteria, DNA restriction analysis, DNA methylation, bacterial transformation and many others. We will also take a look at the issue of antibiotic resistance and the recombination of DNA. Students will also perform a PCR lab, a technique used in the identification of genes, some of which make us unbelievably unique.

### SCI745/746 Freshwater Ecology (L1)

Grades 11-12

2 Terms

1 Credit

Prerequisite: Successful completion of General Biology

Freshwater Ecology will involve the exploration of the water environment and using science to study the quality of our water resources. This will include studying the ecology of various water ecosystems around Amery. In addition, we will explore human impact on these ecosystems as well as our use of natural resources. Freshwater Ecology will be a laboratory extensive course, which will involve a great deal of fieldwork. The fieldwork will take place at area lakes, rivers, and ponds. This course will qualify for a third year of lab science.



### SCI708/709 Medical Terminology (L2) (NTC Credit)

Grades 10-12

2 Terms

1 Credit

Prerequisite: Successful completion of General Biology

The course focuses on the component parts of medical terms: prefixes, suffixes and word roots. Students practice formation, analysis and reconstruction of terms. An emphasis is placed on spelling, definition and pronunciation. Introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology will be covered. THIS COURSE IS AVAILABLE FOR TRANSCRIPTED CREDIT THROUGH NTC. This would be vital for those students interested in the CNA program at NTC.

### SCI728 Microbiology (L1)

Grades 10-12

1 Term

½ Credit

Prerequisite: Passing grade in General Biology

Microbiology is the study of microorganisms. This course will expose students to various laboratory techniques involved in growing, isolating, and identifying these organisms. It will be extensively laboratory based. Basic microscope, staining, and sterilization techniques will be reviewed. Applications to current events, public health, and occupations using these techniques will be discussed. This course will qualify toward a third year of lab science.

### SCI790/791 Physics (L3) (UWRF Credit)

Grades 10-12

2 Terms

1 Credit



Prerequisite: Successful completion of Advanced Algebra II

Physics is the study of matter and energy. Students will examine a wide range of topics including, but not limited to: projectile motion, collisions, energy, sound, light, lens optics, electricity, nuclear physics and relativity. Students will solve problems and participate in extensive laboratory, computer, and graphing calculator activities designed to reinforce concepts and to develop skills for use in introductory college science courses.

## Social Studies

### Required Courses:

Grade 9 students take both World History and Civics.  
Grade 10 Students take either AP US History or US History

#### SOC825 World History

Grade 9 1 Term ½ Credit

This course studies a variety of historical events that contribute to the development of the modern world. Topics include, but are not limited to, Greece and Rome, the bubonic plague, Renaissance, and the Enlightenment. This course uses a variety of media, writing, reading of historical documents, and simulations demonstrated through the ability to express understanding about the subject matter. We will do many different activities to show our understanding of the material such as drawings, writing theses, discussions, and conversation.

#### SOC841 Civics

Grade 9 1 Term ½ Credit  
(Available to upper classmen in 24- 25 on a case-by-case basis)

This course is designed to give students a background in the workings of our state and local governments to make them more informed citizens. It will also focus on civic duties, responsibilities, and personal rights. This class will work hard at informing students of the important issues that will face them in life and help them have a better understanding of the American Political System.

#### SOC860/861 AP US History (L4)

Grade 10 2 Terms 1 Credit


*Prerequisite:* To any student seeking the challenge of the AP US History course, you must have a grade point average (GPA) of "B" or better in both Social Studies and English courses.

Planning for your academic future, please take the time to consider the benefits of this course. It is designed for the upper level student and considered the equivalent of a college level course. It provides a solid introduction to students who plan on attending major universities. This course also prepares students to take the AP U.S. History exam given in May. A passing grade on this exam may qualify a student to receive college credit in U.S. History. Some students are reluctant to take AP US History for fear of the heavy "workload". Yes, there is a lot of work, but the course truly prepares students for what to expect in college.

#### SOC835/836 U.S. History

Grade 10 2 Terms 1 Credit

U.S. History completes the study of the United States from the Pre-Columbian migration to the presidential election of 1968. The course combines economics, political, and social/cultural history in a general survey of the people of the United States. It is designed to provide specific knowledge and understanding of issues and events of the past with special interest in skills in applications to present national trends, beliefs, and values.

DACP Courses:  **UWRP**. Earn college credit by taking these specially labeled courses. See Page 8 for details.

### Elective Courses:

#### SOC870/871 AP Psychology (L4)

Grades 11-12 2 Terms 1 Credit



*Prerequisite:* A grade of 'B' or better in prior social studies courses

This dual-credit course introduces students to the systemic and scientific study of behavior and mental processes. Students are exposed to the psychological facts, principles, and phenomena associated with the major sub fields within psychology. They also learn about the methods psychologists use in their science and practice. We cover a variety of topics within psychology including but not limited to behavior, development, disorders and treatments and personality.

#### SOC808/809 AP US Government and Politics (L4)

Grades 11-12 2 Terms 1 Credit

\*\* (Course likely offered in even numbered school years) \*\*

*Prerequisite:* A grade of 'B' or better in prior social studies courses

The goals of this course are to increase understanding of the American Political System, its framework, traditions, values, and to work towards passing the AP exam. This course is concerned with the nature of the United States Political System, its' development over the past 200 years, and how it continues today. We will examine the principal processes and institutions through which the political system functions, as well as some of the public policies that these institutions implement.

#### SOC852 Contemporary United States History (L2)

Grades 11-12 1 Term ½ Credit

This course will focus on world events from the post-World War II Era to modern day. The goal is to link the past to the present by examining issues related to conflicts, both social and militarily, as well as looking at the links surrounding politics and the economy. Global leaders will be closely studied as we look at foreign policy and the expansion of science and technology. Finally, popular culture of the times will be studied as we look at how it is shaping our present and future and compare it to the past. Concepts to be covered include economics, politics, military and social conflicts, global leaders, foreign policy, science and technology,

#### SOC819 Developmental and Abnormal Psychology (L2)

Grades 11-12 1 Term ½ Credit

Psychology 2 will start with the Stages of Development that occur throughout life. We will begin with birth and follow the life cycle through death, exploring all the psychological and physical changes humans go through. Next we will look at intelligence and personality traits through a variety of methods including online tests. Our 3<sup>rd</sup> unit will focus on Abnormal Behavior and the different ways to deal with Abnormal Behavior. Next we will look at stress and how it impacts our life on a daily basis as well as looking at therapy techniques to deal with stress.



# Technology & Engineering Education

 **NTC Credit Courses:** Earn college credit by taking these specially labeled courses. See Page 8 for details.

## TED910 Advanced Woodworking (L1)

Grades 10-12                      1 Term                      ½ Credit

**Class Fee: Students will figure out the cost of their project and pay before work begins.**

*Prerequisite:* A passing grade in Machine Woods

In this course students will extend their understanding and knowledge of woodworking skills while developing personal projects. Students will learn additional woodworking techniques, skills, and talents while building end tables, coffee tables, gun cabinets and other woodworking projects.

## TED901/902/903/904 Construction Framing 1 (L2) (NTC Credit)

Grades 10-12                      4 Terms                      2 Credits

**Student must fill out a separate application to be considered for this class.**

*Prerequisite:* TED907 Understanding Construction

This is a lab/shop applications course that covers the operations required in building layout, and the framing of walls to meet Wisconsin State Code. Competencies are learned through actual hands-on applications by building a house off-site. OSHA 10 training is required. This is one of three classes that students are required to take for NTC's Construction Essentials Program.

Construction Framing is a repeatable course. However, it is offered every other year, as we build a house every other year.

**Course will be offered in the 2025-26 and 2027-28 school years.**

## TED075 Careers & Technology

Grades 10-12                      1 Term                      ½ Credit

In this course you will engage in career planning and goal setting for your future while utilizing MSOffice and other technologies. You will create an individualized learning plan (career pathway/map) to help you schedule the appropriate courses in high school that can help you achieve your career goals. The xello website will be used to complete self-assessments and research career options. You will complete a job shadow to see first-hand what skills are needed in the workplace, create job campaign materials (job application, résumé, cover letter, follow up letter, reference list), participate in mock job interviews with local employers, and compile a portfolio of artifacts to use when interviewing for scholarships, jobs, or post-secondary programs.

## TED905 Home and Automotive Maintenance

Grades 9-12                      1 Term                      ½ Credit

Students will learn how to perform basic maintenance on houses and automobiles. The skills learned in this class will help students diagnose and repair basic household and automotive problems that will occur in their lifetime. The home portion will cover basic framing, sheetrock installation, mudding and taping, siding, shingling, basic plumbing, basic electrical, and steps to take to make your home more energy efficient. In the automotive portion, students will learn how to properly change a tire, how to add and change oil and coolant in a vehicle, along with other basic vehicle maintenance. During these lessons, students will also learn the names and proper use of basic tools to do these common repairs and maintenance.

## TED945 Machine Woods

Grades 9-12                      1 Term                      ½ Credit

**Class Fee: Students will figure out the cost of their project and pay before work begins.**

In this introductory course students will be introduced to the woodworking industry. Students will start by learning about the lumbering industry, natural materials along with manufactured materials, and some of the machinery that is used in this field. Students will build several projects that will allow them to learn some of the different skills needed to be a good woodworker.

## TED951 Manufacture Materials

Grades 9-12                      1 Term                      ½ Credit

**Class Fee: \$30**

In this introductory course students will be introduced to materials and techniques used in manufacturing. Students will work with machinery and processes associated with the metals industry such as bending, milling, turning, shaping, and welding. Students will also be introduced to the similarities in processes used in the plastics industry. Finally, students will be introduced to products made in the woods industry along with the techniques used to make these products. Students will use these processes to build projects that will reinforce these concepts.

## TED939 Principles of Engineering (L2)

Grades 9-12                      1 Term                      ½ Credit

This course will introduce many of the basic and advanced concepts, issues, and techniques related to engineers and the field of engineering. Students will learn about various types of engineering, communication and documentation, design process, and engineering systems. Students will study engineering by participating in labs, both virtual and hands-on, for purposes of learning how and why these concepts are important to engineering.

### **TED920 Print Reading for Building Construction (L2)**

#### **(NTC Credit)**

Grades 10-12

1 Term

½ Credit



This course provides instruction in reading and interpreting shop drawings, residential drawings, and commercial building plans. Emphasis is placed on building terminology and learning conventional techniques of communicating building methods from the designer to the builder. Students learn to visualize the structure and to interpret elevations, plan views, details, and sections from drawings. They also learn to read and interpret building specifications.

**This course will be offered during the 2024-25 and 2026-27 school years.**

This course is one of three classes that students are required to take for NTC's Construction Essentials Program.

### **TED980 Small Engines**

Grades 9-12

1 Term

½ Credit

In this introductory course students will be introduced to small engines. We will start with the tear down and rebuilding of school owned engines. Next, students will be able to bring in equipment of their own to work on for the remainder of the term. Guest speakers, videos, and discussions will be used to increase students' knowledge of small engines.

### **TED907 Understanding Construction**

Grades 9-12

1 Term

½ Credit

In this introductory course the students will be introduced to the broad field of construction. Students will be introduced to basic types of construction, architectural styles, reading an architect's scale, permitting, site preparation, foundations, framing, carpentry, electricity, plumbing and heating and cooling. This is the foundation course for the house building project.

### **TED952 Warrior Manufacturing**

Grades 10-12

1 Terms

½ Credit

Prerequisite: *Welding I*

Warrior Manufacturing will expose students to many of the career opportunities seen today in manufacturing companies. Students will get hands-on opportunities to try out a variety of manufacturing roles such as welding, office management, accounting, marketing and engineering prior to committing to a major area of study. Students enrolled in the Warrior Manufacturing class will operate his or her own student run business right out of the high school Tech Ed department. Students will use previously learned skills from Welding I. Students will be responsible for quoting jobs, ordering material, manufacturing parts, quality control, shipping, receiving, invoicing, customer service, accounting, payroll hours, and equipment maintenance.

### **TED972 Welding I: Welding for Mechanics (L2) (NTC Credit)**



Grades 10-12

1 Term

½ Credit

**Class Fee: \$30**

Anyone may take this course to gain extensive knowledge in the welding area. In this course you will learn the safe setup and operation of oxyacetylene cutting (OAC), SMAW (Stick), GMAW (Mig), FCAW, GTAW (Tig) welding applications.

This course is a higher level (Technical College) welding course to allow students to meet some prerequisites for students going to NTC. The course is a transcribed course with NTC and anyone passing the course with a grade of B or better will receive (free of charge) 2 credits at NTC.

### **TED990 Welding II: Project Based Welding (L2)**

Grades 10-12

1 Term

½ Credit

**Class Fee: \$30 plus project costs estimated to be approximately \$100-\$200.**

Prerequisite: *Passing grade in Welding I: Welding for Mechanics*

This course is totally project based in that every student will create a design and build a metals project using skills learned in the Welding for Mechanics course. The course will include a review of the Instruction in safe setup and operation of oxyacetylene cutting (OAC), SMAW (Stick), GMAW (Mig), FCAW, GTAW (Tig) welding applications.

# World Language

## FRENCH

**French is spoken in five continents by more than 200 million people and is the official language of more than 25 countries. Proficiency in French along with an understanding of the values and beliefs of French-speaking cultures will enable people to participate actively in our diverse global community of the 21<sup>st</sup> century.**

### FOR600/601 French I

Grades 9-12                      2 Terms                      1 Credit

Students will explore the language and culture of the peoples who speak this modern world language. The focus of this course is the acquisition of basic French language skills to develop the ability to communicate in a culturally appropriate manner in different daily situations. Vocabulary and basic grammatical structures are taught within the context of everyday topics. A variety of techniques and technology are used to reach all students. Culture is embedded throughout the course and relates directly to the topics studied. No prior knowledge is necessary, only a desire to explore a new world through a new language.

### FOR670/671 French II (L1)

Grades 9-12                      2 Terms                      1 Credit

*Prerequisite:* Completion of French I with a grade of "C" or better

Students continue to explore the language and culture of the peoples who speak this modern world language. Students continue to develop their ability to understand spoken and written French. At the same time, they learn to communicate orally and in writing in a culturally appropriate manner about a variety of familiar topics. Vocabulary and grammatical structures are taught within the context of everyday topics. A variety of techniques and technology are used to reach all students. Culture is embedded throughout the course and relates directly to the topics studied.

### FOR615/616 French III (L2)

Grades 10-12                      2 Terms                      1 Credit

*Prerequisite:* Completion of French I and II with a grade of "C" or better

Students will enhance their proficiency in French through meaningful communication as it is used in real-world situations that students are most likely to encounter. This course focuses on increased proficiency in the skills acquired during the previous years in order to understand, speak, read and write French with greater accuracy. Students will continue to explore topics related to France and the French speaking world in order to develop an appreciation and understanding of the French culture. A variety of techniques and technology are used to reach all students.

### FOR618/619 French IV (L3)

Grades 10-12                      2 Terms                      1 Credit

*Prerequisite:* Completion of French I, II and III with a grade of "C" or better

Students will focus on meaningful communication and language as it is used in real-world situations that students are most likely to encounter. They will continue to extend their language skills, become more accurate in the language they produce, comprehend a greater variety of texts and, generate responses, and initiate interactions in the language in more complete ways. Students will further use their language to expand knowledge of other content areas and gain awareness of multiple viewpoints. Students will read articles from French magazine and newspapers and Internet websites in order to be kept up-to-date on what is happening in the French-speaking world today. A variety of techniques and technology are used to reach all students. A comprehensive review of the French language will also prepare students for college placement tests.

### FOR673/674 French V (L3)

Grades 11-12                      2 Terms                      1 Credit

*Prerequisite:* Completion of French I, II, III and IV with a grade of "C" or better

French cinema and music, highlights from French history, and current events in the French-speaking world provide the basis for conversation and discussions in this course. A comprehensive review of the French language will also prepare students for college placement tests. Students will read articles from French magazine and newspapers and Internet websites in order to be kept up-to-date on what is happening in the French-speaking world today. Selections from French literature will be featured reflecting a variety of authors and styles of writing. Students will listen to a variety of French speakers discussing their perspectives on everyday life, movies, music, current events in the French-speaking world, and issues of global importance.

# SPANISH

**Spanish is the second most spoken language in the world, making it a useful and practical language to study. As the Hispanic population grows within the United States, students' opportunities to use this language both here and abroad are endless.**

## **FOR625/626 Spanish I**

Grades 9-12                      2 Terms                      1 Credit

This course involves work with comprehensive input. This allows students to acquire the language through listening, reading and writing. The materials and activities are specifically designed for 100% comprehension for students.

## **FOR640/641 Spanish II (L1)**

Grades 9-12                      2 Terms                      1 Credit

*Prerequisite:* Completion of Spanish I with a grade of "C" or better.

This course is a continuation of Level I/Spanish I using comprehensive input by acquiring the language through listening, reading, writing and gaining confidence to begin communicating orally with others.

## **FOR637/638 Spanish III (L2)**

Grades 10-12                      2 Terms                      1 Credit

*Prerequisite:* Completion of Spanish I and II with a grade of "C" or better.

This course is a continuation of Spanish II with more in depth and expanded usage of structures and vocabulary - cultural readings, talks, skits, etc., in the target language. Completion of this course should provide a firm grammar and cultural base for participants to respect and express the feelings of the Spanish world.

## **FOR650/651 Spanish IV (L3)**

Grades 10-12                      2 Terms                      1 Credit

*Prerequisite:* Completion of Spanish I, II and III with a grade of "C" or better.

In this course students will be involved in review of vocabulary and grammar from previous levels of comprehension. Students will be provided opportunities to discuss and simulate practical and creative situations. They will be expected to practice and apply all aspects of language acquisition (listening, speaking, reading, writing,) as to think and express themselves in the target language. Students will be afforded an increased exposure to the target language's culture through articles, novels, art, history and movies.

## **FOR676/677 Spanish V (L3)**

Grades 11-12                      2 Terms                      1 Credit

*Prerequisite:* Completion of Spanish I, II, III and IV with a grade of "C" or better.

In this course students will be involved in developing proficiency in all aspects of language learning and acquisition to enable them to understand and communicate in the target language at a moderate degree of difficulty. They will be expected to communicate in the written and spoken form applying and understanding the various grammatical time frames. The goal is listen, think, speak, read, write, and understand in the target language. Preview of any structures and vocabulary, application of new vocabulary will be addressed as applicable to the theme of study. Students will be provided opportunities to discuss and simulate practical and creative situations. They will be expected to practice and apply all aspects of language acquisition. They will be afforded increased exposure to the target language's culture through literature, art, history, music, etc.