

JAMESTOWN HIGH SCHOOL



COURSE OFFERINGS

2023 – 2024

Jamestown High School



Mission Statement

"Engaging students with challenging and innovative experiences to prepare them for future success."

Prepared by the
JHS Administrators
and
Counseling Staff

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Jamestown High School

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Dear Students and Parents/Guardians,

The community of Jamestown, State of North Dakota, and the United States of America, through funding from all sources invites you to select your courses for the upcoming school year at Jamestown High School (JHS). We have a dedicated staff that has, and will, continue to develop courses and programs aligned with preparing all our students for their futures.

Our state's goal for all of our students is to graduate "choice ready" for employment, military, or post –secondary school. Being choice ready means that when you graduate you have the background, skills and experiences to perform well at the next level but also to make an informed decision about your interests.

No matter where your educational or career path takes you, being choice ready means: having high levels of literacy; being able to problem solve with mathematics; being civically engaged, responsible, and discerning; having knowledge about scientific processes, trends, and challenges; learning how you learn best; having social skills, and character; being inspired and finding your passion; and effectively communicating your ideas. These competencies are embedded in our curricula, basic graduation requirements, and overall school experience. To truly be "choice ready" our students and families should work together to develop plans of study that are challenging, and align with discovering their passions.

Decisions around your yearly plan or four-year plan can be influenced by a myriad of items to consider in the present and the future. The State of North Dakota offers a "North Dakota Scholarship" built primarily around the outcomes of being "choice ready" and we have course offerings that align with these outcomes. Our amazing counseling team will work to ensure you have a plan for success and to guide you along the way.

Consider all of the hands-on learning opportunities at the James Valley Career/Technology Center. These courses complement our "choice ready" philosophy as skills and knowledge are applied to real world opportunities. Ensuring your decisions align with these factors and your ambitions can best be supported by a team.

Please take time to familiarize yourself with this program of studies and feel free to contact JHS staff with questions about courses. Any questions call Dorothy Lauinger at 701-952-4128. She will refer you to the correct counselor. Together, we will ensure all our students are ready for their future.

Sincerely,

Adam M. Gehlhar

NOTIFICATION OF NON-DISCRIMINATION POLICY

The Jamestown Public School District is committed to maintaining a learning and working environment free from discrimination and harassment in all employment and educational programs, activities, and facilities. The District prohibits discrimination and harassment based on a student's, parent's, guardian's, or employee's race, color, religion, sex, gender identity, national origin, ancestry, disability, age, or other status protected by law. The District also provides equal access to the Boy Scouts and other designated youth groups, as required by federal law.

It is a violation of this policy for any district student, parent, guardian, employee, or third party to discriminate against or harass another district student or employee, based on any status protected by law, if the conduct occurred within the context of an education program or activity, or if the conduct had a continuing effect in the educational setting of a program or activity occurring on or off school district property. The District will not tolerate discrimination or harassment of a district student or employee by a third party. The District also prohibits aiding, abetting, inciting, compelling, or coercing discrimination or harassment; discriminating against or harassing any individual affiliated with another who is protected by this policy and/or law; knowingly making a false discrimination and/or harassment report; and retaliation against individuals who report and/or participate in a discrimination and/or harassment investigation, including instances when a complaint is not substantiated.

The District shall promptly investigate any discrimination, harassment, or retaliation complaint and act on findings as appropriate, or as required by law. Outcomes may include disciplinary measures such as termination of employment or student expulsion in accordance with board policy, law, and, when applicable, the negotiated agreement. Students and employees are expected to fully cooperate in the investigation process. The District will take steps to prevent recurrence of discrimination, harassment, or retaliation and remedy discriminatory effects on the complainant and others, if appropriate.

The Board designates Robert Lech, as the Nondiscrimination Coordinator. The Board designates Kristi Grounds as the Title IX Coordinator. The Board designates Heidi Budeau as the 504/Title II Coordinator. They may be contacted at 207 2Ave SE. Jamestown, ND 58401, 701-252-1950 or Robert.Lech@k12.nd.us, Kristi.Grounds@k12.nd.us or Heidi.Budeau@k12.nd.us

ACCREDITATION

Jamestown High School is fully accredited by Cognia. Cognia is largest educational accrediting agency in the United States. Its membership consists of selected colleges and secondary schools' businesses and organizations internationally.

GENERAL INFORMATION

CREDIT REQUIREMENTS

A total of twenty-two (22) credits are required for graduation from Jamestown High School. The following are required:

Course	Credits	Course	Credits
Language Arts	4	Personal Finance	0.5
Social Studies	4	Computer Course	0.5
Mathematics	3	Physical Education	1
Science	3	Health	0.5
Electives	2.5		
Fine Arts, Foreign Language, or Career Technology			3
		Total	22

MAKING THE GRADE

Grades earned during a student's freshman, sophomore, and junior years determine senior class rank and grade point average. Colleges and other post-secondary schools frequently award scholarships based in part upon class rank and GPA.

During a student's high school years, he/she will be requesting recommendations from teachers, principals, and counselors. Students may be rated on such factors as attendance, motivation, attitude, honesty, appearance, participation, health, conduct, and insight. A student's awareness of these factors may help him/her compile the school record he/she desires.

CLASS STATUS

Class status is determined by number of credits earned.

In order to be a:	Number of credits needed:
Sophomore	5.5
Junior	11
Senior	16

DUAL CREDIT

Juniors and seniors at Jamestown High School can enroll in post-secondary academic and technical courses from regionally and nationally accredited colleges and receive both high school and college credit.

Students and parents or legal guardians are responsible for the costs related to receiving post-secondary credit. A student enrolled in an approved class will receive both high school and college credit. The counselors have information on courses available at University of Jamestown, NDSCS at Wahpeton, and Lake Region State College at Devils Lake.

Students must register for and have the dual credit class approved before the class begins. Juniors or seniors considering dual credit must have a 3.2 or higher cumulative GPA. The process for registering for dual credit is: (1) Secure the dual credit enrollment form from the principal; (2) Have the college complete and sign their section; and (3) Return the enrollment form to the principal for final approval by the superintendent. Financial Aid is available for students who qualify for free or reduced lunch and meet the criteria for dual credit classes.

Dual Credit and AP Courses

Dual Credit Course	College	Credits	cost/ credit	Total	AP Courses	Test Fee
Composition 110-online @ CTE	Lake Region	3	148.25	444.75	AP Literature	*97
Composition 120-online@ CTE	Lake Region	3	148.25	444.75	AP Language	*97
Psychology 111-online	Lake Region	3	148.25	444.75	AP Chemistry	*97
Psychology 250-online	Lake Region	3	148.25	444.75	AP Calculus	*97
Networking 1-online	Lake Region	3	148.25	444.75	AP Government	97
Networking 2-online	Lake Region	3	148.25	444.75	AP Psychology	97
Medical Term	Lake Region	3	148.25	444.75	AP Art	97
Comp. Hardware & Oper Sy. 1-online	Lake Region	3	148.25	444.75	AP Computer Sci	*97
Comp. Hardware & Oper Sys. 2-online	Lake Region	3	148.25	444.75	AP US History	97
Anatomy & Physiology+ lab	NDSCS	4	86.2	344.8		
World Literature	NDSCS	3	86.2	258.6		
Prob & Stats	NDSCS	3	86.2	258.6		
College Algebra	NDSCS	3	86.2	258.6		
Economic	NDSCS	3	86.2	258.6		
Government	NDSCS	3	86.2	258.6	Courses w/ Fees	Fee
Composition 110 @ JHS	NDSCS	3	86.2	258.6	Nursing Assistant	125. Test
Composition 120 @ JHS	NDSCS	3	86.2	258.6	Clothing & Textiles	Materials
Aviation Technology 1	Univ of Jmst	3	80	240		
Aviation Technology 2	Univ of Jmst	3	80	240		
Drones 1	Univ of Jmst	3	80	240		
Drones 2	Univ of Jmst	3	80	240		
Foundations of ED	Univ of Jmst	3	80	240		

Lake Region-has a one-time registration fee \$35

*AP-ND one free test for Stem Courses **The Cost Subject to change

NCAA and NAIA Approved Courses at JHS

Foreign Language

German 1 – 4

Spanish 1 – 4

Language Arts

English 1 – 4

Creative Writing

Novel

Speech and Debate

World Literature

Early College Language Arts

AP English Lang. & Comp

AP English Literature & Comp

Composition 110 & Composition 120

Mathematics

Algebra 1

Geometry

Algebra 2

Pre-Calculus

AP Calculus

Probability & Statistics DC

College Algebra DC

Science

Physical Science

Biology

Environmental Science

Chemistry

Physics

Anatomy/Physiology DC

AP Chemistry

Social Studies

Civics

ND Studies

World History

US History

Economics

Government

Psychology

Sociology

AP Psychology

AP US History

AP US Government & Politics

RETAKE A COURSE

A student's cumulative GPA is calculated based upon the grade point average of all courses taken. If a student wants to retake a course to attempt to earn a higher grade, they can apply through their counselor. When they do the highest grade received will be counted towards the student's GPA. All courses taken will remain on the student's transcript. On their Retake a Course form, students can choose to have the previous course recorded as an elective credit or as an Audit (Au). The **Retake a Course** form can be obtained from the counseling department.

TAKING THE ACT

Taking the ACT assessment is a first step in planning one's future after high school. The ACT consists of four academic tests and a writing assessment that measures educational development. It also has a detailed questionnaire that collects information relevant to educational and career planning. The ACT is recommended or required by many post-secondary institutions and scholarship programs. The ACT will be optional for Juniors & Seniors at a national testing site, for example, University of Jamestown. Students are encouraged to take the ACT assessment during the second semester of their junior year or early in their senior year.

TAKING THE SAT

The SAT is a three-hour, multiple choice test that measures the verbal and mathematical abilities students have developed both in and out of school. The SAT is required for certain scholarships and is preferred over the ACT by certain colleges for meeting admissions requirements. Students are encouraged to take the SAT assessment during the second semester of their junior year or early in their senior year. Students should check college catalogs and review scholarship requirements to determine which of the two tests, the ACT, or the SAT, to take.

TAKING ACHIEVEMENT TESTS

Some colleges also require achievement tests developed by the College Board. The achievement tests are one-hour, multiple-choice tests in specific subjects. Achievement tests measure your knowledge of particular subjects and your ability to apply that knowledge. Some colleges require one or more achievement tests for admissions or placement purposes. Again, students should check the requirements of the college before deciding which tests to take.

TAKING THE ACCUPLACER TESTS

The Accuplacer test supports students ready to start earning credits toward their degree as well as those who need to develop their skills before taking college-level courses. ACCUPLACER scores let students know where they stand academically, which makes it easier for them to plan a successful path toward a college degree. **This test will be required for Composition 110 & 120 if you did not receive an ACT score of 18 in English & Reading portion. This test is also needed for Probability and Statistics and College Algebra if you do not receive an ACT score of 21.

ND Scholarship

The new North Dakota scholarship was created during the 2021 Legislative Session through the approval of SB 2289. It will gradually replace the current Academic and CTE Scholarships. Students graduating in 2022, 2023, or 2024 can use either the old (Academic/CTE Scholarship) requirements, or the new North Dakota Scholarship requirements. Starting with the graduating class of 2025, students can only use the new North Dakota Scholarship requirements. Students cannot earn more than one of the three scholarships (Academic, CTE, or North Dakota). The purpose of the new North Dakota Scholarship is to align scholarship requirements to the Choice Ready initiative. The new requirements align to Choose Ready but will be more rigorous than what is required for Choice Ready. Your counselors will complete your four-year planning with your scholarship goals and aspirations in mind and will support you in planning for the opportunity to get the scholarship you qualify for. More information for the scholarships can be found at nd.gov/dpi (Search for North Dakota scholarship.)

ND Academic Scholarship Eligibility Requirements (NDCC 15.1-21-02.5)

- North Dakota resident student
- Graduate from a high school in North Dakota, or from a public high school in a bordering state according to provisions set forth in ND Century Code 15.1-29, or from a nonpublic high school in a bordering state while residing with a custodial parent in this state (NDCC 15.1-21-02.6) or completes a program of home education supervised in accordance with ND Century Code 15.1-23.
- Complete the following course requirements:
 - 4 units of English language arts from a sequence that includes literature, composition, and speech
 - 3 units of mathematics, including 1 unit of algebra II, 1 unit of mathematics for which algebra II is a prerequisite, and 1 unit of any other math which may include computer science
 - 3 units of science, consisting of 1 unit of biology AND 1 unit of chemistry and 1 unit of physics, OR 1 unit of physical science and 1 unit or two $\frac{1}{2}$ units of any other science
 - 3 units of social studies, including 1 unit of US history, 1 unit of problems of democracy OR $\frac{1}{2}$ unit of US government AND $\frac{1}{2}$ unit of economics, and 1 unit or two $\frac{1}{2}$ units of any other social studies
 - 1 unit of physical education OR $\frac{1}{2}$ unit of physical education and $\frac{1}{2}$ unit of health
 - 2 units of the same foreign language; the same Native American language; American Sign Language; 2 units of a coordinated plan of study recommended by the Department of Career and Technical Education and approved by the superintendent of public instruction; or 3 units from an Educational Pathway consisting of 1 unit of Teaching Profession, 1 unit of Educational Methodology, and 1 unit to be selected from the following: DC Psychology, AP Psychology, Child Development, Peer-to-Peer Leadership, or Child-Related Careers
 - 1 unit selected from foreign languages; Native American languages; American Sign Language; fine arts; or career and technical education
 - Any 5 additional units
- Fulfill any 1-unit requirement set forth above by means of an advanced placement course and examination, OR $\frac{1}{2}$ unit requirement set forth above by means of a dual credit course, OR 1 unit requirement set forth above by means of an early entrance college course from a college which has a physical presence in North Dakota.
- Obtain a grade of at least a “C” in each unit or $\frac{1}{2}$ unit in all courses enrolled and obtain a cumulative
 - grade point average of at least 3.0 on a 4.0 grading scale (non-weighted grading scale) for all courses enrolled; OR
 - Obtain a grade of at least a “C” in each unit or $\frac{1}{2}$ unit and obtain a cumulative grade point average of at least 3.0 on a 4.0 grading scale (non-weighted grading scale) based ONLY on the 22-units defined in sections above
- Receive a composite score of at least 24 on an ACT



NORTH DAKOTA SCHOLARSHIP as aligned to the Choice Ready Framework

The North Dakota Scholarship framework is a tool to assist educators in understanding the requirements of the ND Scholarship, as listed in North Dakota Century Code 15.1-21-02.10. Requirements begin with the **ESSENTIAL SKILLS** section. Students shall then strive to be **POST-SECONDARY READY**, **WORKFORCE READY**, and/or **MILITARY READY**, according to the requirements listed below.



ESSENTIAL SKILLS (15.1-21-02.10(5))

☐ Check here when student has completed Essential Skills

- ☐ Earn a North Dakota high school diploma
- ☐ Complete a 9-week Career Education/Individual Counseling, 4-year Rolling Plan, pass ND Civics Test, earn a 3.0 or higher overall GPA, and four or more additional indicators:
- ☐ 25 hours of Community Service
- ☐ 95% Attendance (not counting school related absences)
- ☐ Career Exploration Experience
- ☐ Two or more years in organized Co-Curricular Activities
- ☐ Two or more years in organized Extra-Curricular Activities
- ☐ Successfully complete a Capstone Project
- ☐ Successfully complete an online learning course
- ☐ Demonstrate competency in 21st Century Skills

Students shall achieve Essential Skills above, and complete two or more of the **CHOICE READY** components below to be eligible for the ND Scholarship.



☐ Check here when student is Post-Secondary Ready

POST-SECONDARY READY

Complete both indicator sets below:

ACT/SAT minimum composite score:

- ☐ ACT composite of 24, or
- ☐ SAT composite of 1180

and

Two or more additional indicators:

- ☐ Advanced Placement Course (A, B or C) (A, 3 or 2)
- ☐ Dual Credit Course (English or Math) (A, B or C) (A, 3 or 2)
- ☐ Algebra II (A, B or C) (A, 3 or 2)
- ☐ Advanced Placement Exam (3+)
- ☐ International Baccalaureate Exam (4+)
- ☐ 3.0 GPA in core course requirements for NDUS admission



☐ Check here when student is Workforce Ready

WORKFORCE READY

Complete both indicator sets below:

- ☐ 4 credits of CTE with 2 credits in same plan of study
- ☐ ACT of 24, or 5 or higher on all three WorkKeys tests

and

Two or more additional indicators:

- ☐ Complete Career Ready Practices Course
- ☐ Dual Credit Course (A, B or C) (A, 3 or 2)
- ☐ Technical Assessment/Industry Credential
- ☐ Workplace Learning Experience (40 hrs.)
- ☐ Work-based Learning Experience (Perkins VI) (40 hrs.)
- ☐ ND SA (Reading/Math) Level 3 or greater, or ACT for Accountability: English 15/Mathematics 22 or greater



☐ Check here when student is Military Ready

MILITARY READY

Complete all three indicators below:

- ☐ ASVAB score of 85 or greater, or ASVAB score of 31 or greater and have completed Basic Training;
- ☐ Physically Fit - Have successfully completed required PE courses (A, B or C) (A, 3 or 2); and
- ☐ Complete two or more additional indicators from the Post-Secondary or Workforce options:

- ☐ _____
- ☐ _____

ND Career and Technical Education Scholarship Eligibility Requirements (NDCC 15.1-21-02.4)

- North Dakota resident student
- Graduate from a high school in North Dakota, or from a public high school in a bordering state according to provisions set forth in ND Century Code 15.1-29, or from a nonpublic high school in a bordering state while residing with a custodial parent in this state (NDCC 15.1-21-02.6) or completes a program of home education supervised in accordance with ND Century Code 15.1-23
- Complete the following course requirements:
 - 4 units of English language arts from a sequence that includes literature, composition, and speech
 - 3 units of mathematics, including 1 unit of algebra II and 2 units of any other mathematics, which may include one unit of computer science
 - 3 units of science, consisting of 1 unit of biology AND 1 unit of chemistry and 1 unit of physics, OR 1 unit of physical science and 1 unit or two ½ units of any other science
 - 3 units of social studies, including 1 unit of US history, 1 unit of problems of democracy OR ½ unit of US government AND ½ unit of economics, and 1 unit or two ½ units of any other social studies
 - 1 unit of physical education OR ½ unit of physical education and ½ unit of health
 - 1 unit selected from foreign languages; Native American languages; American Sign Language; fine arts; or career and technical education
 - 2 units of a coordinated plan of study recommended by the Department of Career and Technical Education and approved by the superintendent of public instruction; or 3 units from an Educational Pathway consisting of 1 unit of Teaching Profession, 1 unit of Educational Methodology, and 1 unit to be selected from the following: DC Psychology, AP Psychology, Child Development, Peer-to-Peer Leadership, or Child-Related Careers
 - Any 5 additional units, 2 of which must be in the area of career and technical education
- Obtain a grade of at least a “C” in each unit or ½ unit in all courses enrolled and obtain a cumulative grade point average of at least 3.0 on a 4.0 grading scale (non-weighted grading scale) for all courses enrolled; OR obtain a grade of at least a “C” in each unit or ½ unit and obtain a cumulative grade point average of at least 3.0 on a 4.0 grading scale (non-weighted grading scale) based ONLY on the 22-units defined in section above
- Receive a composite score of at least 24 on an ACT or a score of at least “5” on each of 3 WorkKeys assessments to include Workplace Documents, Graphic Literacy, and Applied Math

Note: Students who are eligible for the ND Career and Technical Education Scholarship due to level scores earned on the WorkKeys assessments must send a copy of their WorkKeys Skill Report to the ND Department of Public Instruction.

For questions regarding the requirements of the North Dakota Academic or Career and Technical Education Scholarship, contact (701) 328-2244.

Available Plans of Study for JHS

One plan of study (2 credits) is the first part of the requirement.
to qualify for the \$6,000 ND Career and Tech Scholarship

Note: you must have two credits in one of the boxes below to qualify for plan of study

Agriculture
Auto Collision Block (2credits)
Auto Technology Block (2 credits)
Aviation Tech Block (2 credits)
Child Care Block (2 credits)
Construction Tech Block (2 credits)
Health Careers Block (2 credits)
Informational Technology
Precision Tooling Block (2 credits)

Business & Office Technology		
Administrative Support	General Management	Accounting
Word Processing – ½ cr Multimedia 1 - ½ cr Multimedia 2 - ½ cr Accounting 1 - ½ cr Accounting 2 - ½ cr Personal Finance - ½ cr Principles of Marketing -½ cr Intro to Sports Marketing ½ cr Programming ½ cr	Accounting 1 - ½ cr Accounting 2 - ½ cr Computer Applications -½ cr Personal Finance -½ cr Principles of Marketing– ½ cr Intro to Sports Marketing – ½ cr Programming ½ cr	Accounting 1 - ½ cr Accounting 2 - ½ cr Accounting 3 - ½ cr Accounting 4 - ½ cr Computer Applications - ½ cr Personal Finance - ½ cr Principles of Marketing – ½ cr Intro to Sports Marketing – ½ cr

Health Careers	Family and Consumer Science			
Therapeutic	Family/Community	Early Childhood	Restaur/Food	Visual Arts
Intro Health Careers – 1 cr Health Careers – 1- 2 cr Nurse Assistant – ½ cr Medical Terminology – ½ cr Coop Health – ½ to 2 cr	Ind Living – ½ cr Child Dev – ½ cr Nutrition 1 – ½ cr Nutrition 2 – ½ cr Family Living – ½ cr Nutrition & Fit – ½ cr	Ind Living – ½ cr Child Dev – ½ cr Family Living – ½ cr Coop Child-½-2 cr	Ind Living – ½ cr Nutrition 1 – ½ cr Nutrition 2 – ½ cr Nutrition & Fit – ½ cr	Ind Living – ½ cr Clothing 1 – ½ cr Clothing 2 – ½ cr Coop Child – ½ -2 cr

Agriculture Education		
Natural Resources Environmental Services Plant Systems	Power, Structure, Technical Systems	Animal Systems
Intro to Ag – 1 cr Foundations of Ag 1 cr Ag Processing – ½ cr Horticulture – ½ cr Coop Work Experience – 1 cr	Intro to Ag – ½ cr Foundations of Ag ½ cr Agriscience 1 – 1 cr Agriscience 2 – 1 cr Welding & Fabrication – ½-1 cr Coop Work Experience – 1 cr	Intro to Ag – ½ cr Foundations of Ag ½ cr Small Animal Care – ½ cr Vet Science – 1 cr Coop Ag – ½ or 1 cr

Aviation	Marketing Education	
	Professional Sales/Merchandising/Marketing Communication	Marketing Management
Aviation Technology 1 – 1 cr Aviation Technology 2 – 1 cr Unmanned Aircraft Systems – 1-2 cr	Principles of Marketing ½ to 1 cr Marketing 1 – 1 cr Sports & Entertainment Marketing ½ cr School Store – ½ to 1 cr	Principles of Marketing – 1 cr Personal Finance – ½ cr School Store – ½ to 1 cr

Note: The second part - In addition to having a plan of study from the previous page – you will need two additional CTE credits from any Career and Tech class. See below to pick your two additional credits.

Business/Information Technology at JHS

Word Processing – ½
Computer Applications – ½
Programming – ½
Accounting 1 – ½
Accounting 2 – ½
Accounting 3 – ½
Accounting 4 – ½
Personal Finance – ½
Multimedia 1 – ½
Multimedia 2 – ½
Principles of Marketing – ½
Intro to Sports Marketing – ½
AP Computer Science – ½
Marketing – 1
School Store – ½ to 1
Intro to Cybersecurity – 1

Family and Consumer Science at JHS

Clothing 1 – ½
Clothing 2 – ½
Nutrition 1 – ½
Nutrition 2 – ½
Independent Living – ½
Family Living – ½
Nutrition and Fitness – ½

Career and Tech Center – at CTC

Agriculture

Intro to Ag – 1
Foundations of Ag - 1
Agriscience 1 - 1
Agriscience 2 - 1
Small Animal Care – ½
Horticulture – ½
Veterinary Science – 1
Agricultural Processing – ½
Welding & Fabrication – ½ - 1
Cooperative Ag Work Experience – ½ - 1

Automotive Collision

Auto Collision Tech 1 Block - 2
Auto Collision Tech 2 Block - 2

Automotive Technology

Automotive maintenance Light repair 1 Block - 2
Automotive maintenance Light repair 2 Block -2
Foundations of Auto Repair – ½

Aviation

Aviation Technology 1 - 1
Aviation Technology 2 - 1
Drones 1 & 2 – 1-2

Construction Technology

Construction Tech 1 - 1
Construction Tech 2 Block – 2
Construction Tech 3 Block – 2

Childcare

Child Development – ½
Care and Development Young Child Block – 2
Cooperative Child Care Experience – ½ to 1

Health

Intro to Health – 1
Health Sciences Block – 2
Cooperative Healthcare Experience – ½ to 1
Medical Terminology – ½
Nurse Assistant – ½

Networking

Introduction to Networking I & 2 – ½ - 1
Computer Hardware/Operation Systems 1&2 - ½ - 1

Precision Machining

Precision Machining 1 Block – 2
Precision Machining 2 Block – 2

SUGGESTED CURRICULUM FOR CAREER PLANNING

North Dakota Four-Year College Requirements:

Do you plan to attend a four-year university? The following six public universities in the North Dakota University System are:

Dickinson State University
University of North Dakota

North Dakota State University
Minot State University

Mayville State University
Valley City State University

ND University System Admission requirements are:

4 units of *English*: including the development of written and oral communication skills

3 units of *Mathematics*: algebra 1 and above

3 units of *Laboratory Science*: including at least 1 unit each in 2 or more of the following: biology, chemistry, physics or physical science, environmental science

3 units of *Social Studies*: excluding consumer education, cooperative marketing, orientation to social science, and marriage/family

If you plan to attend a four year university, the North Dakota University System recommends that you take at least two foreign language courses. Additional courses may be required before you can be admitted to some college programs. Your school counselor can tell you more about specific requirements for the programs that interest you.

If you don't take the course required to attend a four-year university, you may attend a two-year college. After successfully completing 24 college credits, you may be eligible to transfer to a four-year university.

Program Registration/Schedule Changes

Students make out their programs of study in February and March. The counselors and Principal approve their requests for classes. Students do not select their teachers. Courses may not be dropped without written consent of a parent or guardian. The only acceptable reasons for schedule changes are:

- 1) computer error
- 2) did not pass the required or prerequisite courses and
- 3) schedule is not complete.

4 Year Course Planning Sheet

[illegible]

ART

ART 1-----Elective 9–12----- 1/2 credit

This course is an introduction to the basic principles of art. The areas to be covered are elements and principles of design, drawing, shading, perspective, print-making, painting, digital art, sculpture and pottery. This course is designed for the beginning art student.

ART 2-----Elective 9–12----- 1/2 credit

Prerequisite: Art 1

This course deals with art principles on a more technical level. The areas to be covered are color theory, painting, design, composition, value, figure drawing, sculpture, and pottery. This course may also provide a discussion and exploration of career opportunities in the art world. Although this course focuses on creation, it may also include the study of major artists, art movements, and styles.

ART 3-----Elective 10–12----- 1/2 credit

Prerequisite: Art 1 & 2

This course is designed for the advanced art student, and it provides the student with the knowledge and opportunity to explore an art form and to create individual works of art. This class will involve projects in the areas of drawing, painting, pottery, sculpture, and printmaking.

ART 4-----Elective 10–12----- 1/2 credit

Prerequisite: Art 3

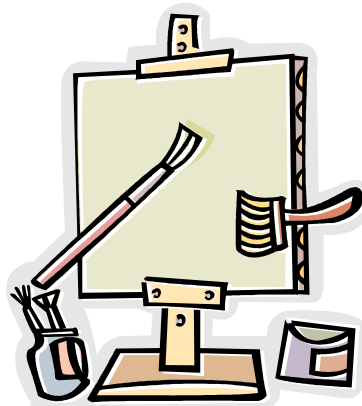
This course is designed for the advanced art student. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. This class will involve projects in the area of: drawing, painting, sculpture, glass etching, collage, ink, and watercolor.

AP ART & Design-----Elective 11–12 ----- 1/2 credit

Prerequisite: Art 4 (with permission of instructor)

The AP Art & Design program consists of three different courses and AP Portfolio Exams – AP 2-D Art & Design, AP 3-D Art and Design, and AP Drawing – corresponding to college and university foundations courses. Students may choose to submit any or all the AP Portfolio Exams.

Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.



BUSINESS/INFORMATION TECHNOLOGY

Why take Business Education or information technology classes?

Business Education courses add new dimensions to learning hands-on in addition to eyes-on. Many students learn better that way. A business course relates academic subjects to the real world and shows how reading and math can be applied in "real world" situations. Self-confidence, self-awareness, good work habits, problem solving, critical thinking, punctuality, reliability, teamwork, and leadership are learned in Business Education classes. Students will explore career interests and learn applications that will be used for a lifetime. Students must take ½ credit in a computer literacy course. Courses that meet this requirement are denoted in the list.

*Some information provided by www.nbea.org

WORD PROCESSING----- Meets 9–12 Requirement-----1/2 credit

Prerequisite: None.

Are you ready to create professional looking documents for your teachers? You will begin with a foundation of the basics skills needed to prepare an assortment of business documents using Microsoft Word. We will also explore other application software such as PowerPoint. You will select and apply software to common tasks. **This course is for those that missed it in Middle School.**

COMPUTER APPLICATIONS-----Meets 9–12 Requirement----- 1/2 credit

Prerequisite: None, Recommended MS or HS Word Processing

This is a practical course that trains students to use a wide range of computer applications programs. Students will practice using Word, Excel, and Publisher. The course will familiarize students with computers and their applications. Students will apply skills that will be used throughout high school, college, and future careers.

PROGRAMMING*-----Meets 9–12 Requirement-----Elective 10–12 -----1/2 credit

Prerequisite: Word Processing or Computer Applications

Programming is a semester course designed to provide the student with basic programming concepts that can be transferred to other programming languages. Foundational concepts and fundamentals of computer programming are explored, and students are provided with opportunities to increase their communication, teamwork, and critical thinking skills. Languages used will include HTML, JavaScript, and Visual Basic. This is an upper-level class.

ACCOUNTING 1 and 2-----Elective 9–12 ----- 1 credit

Prerequisite: None, Algebra recommended

A study of topics in financial accounting including: the accounting cycle forms of business organizations, assets, liabilities, owner's equity, and financial statement preparation and analysis. Students will work with an online automated accounting system and complete a business simulation. This is a vital course for any student who desires to gain a better understanding of how businesses function and maintain accurate records of their operations.

ACCOUNTING 3 and 4-----Elective 10–12----- 1 credit

Prerequisite: Accounting 1 & 2

This course is designed to meet the needs of students interested in entry-level jobs in accounting and/ or business or who are interested in furthering their study in a post-secondary school. Students will perform daily activities and end-of-fiscal period work for a departmental merchandising business organized as a corporation. An automated simulation on a corporation and a manufacturing cost for a business simulation will also be included.

PERSONAL FINANCE -----Required 11–12----- 1/2 credit

Prerequisite: None---

Get ready for the "Real World"! This class will provide you with a strong foundation of personal finance skills to help you become effective citizens. You will learn the responsibilities and realities of acquiring, handling, and spending money and the legal responsibilities that go along with each of these. We will sharpen your ability to manage your own finances and make you aware of some of the inducements and temptations you will face as you choose how to manage your money. Units covered are Financial planning, Budget, Credit, Banking, Investment, Insurance, Careers and living on your own.

MULTIMEDIA----- Meets 9–12 Requirement-----1/2 credit

Prerequisite: None - Computer Applications, or Word Processing recommended

Students in Multimedia will use digital images and videos to create meaningful documentation, production, and presentations to showcase their work. Images, logos, backgrounds, and navigation tools for digital display will be used in multimedia and Internet applications. The topics of ethical and legal issues in the digital world, image-editing, animation, file compression and management, digital audio, video editing, and planning for multimedia applications will also be discussed. Enhancements include proper format and appropriate use of graphics, animations, and transitions. Students will use troubleshooting skills to find solutions to technology-related problems.

MULTIMEDIA 2-----Meets 9 – 12 Requirement -----1/2 credit

Prerequisite: Multimedia

Students in Multimedia 2 will continue to use digital images and video to create production and presentations using advanced skills and industry-recognized software. Students will learn advanced skills in image editing, animation, file storage, digital audio, video editing, logo design, website building, and planning for multimedia applications. Multimedia careers will also be discussed. Students must be able to work independently and demonstrate a professional attitude.

INTRODUCTION TO CYBERSECURITY-----Elective 10-12-----1/2 credit

Prerequisite: ½ credit in any technology course

Introduction to Cybersecurity covers trends in cybersecurity and career opportunities. Course modules will define cybersecurity, explain why it's important, and introduce products and processes used to secure data. Students will also explore why cybersecurity is critical in business and medical industries, how hackers use unsuspecting individuals to propagate malware, and why cybersecurity is a growing profession.

AP COMPUTER SCIENCE PRINCIPLES----- Grades 10-12-----1 credit

Prerequisite: Algebra I, Computer Applications, Word Processing, Multimedia or Programming

In fall 2016, the College Board launched its newest AP® course, AP Computer Science Principles. The course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. This course focuses on computational thinking that is vital for success in all disciplines. Students use computational tools to prepare for the future workforce. They also work with large data sets to identify, analyze, and draw conclusions from trends. The course focuses on student creativity and collaboration to develop skills in oral and written communication and problem solving. Students will use software and technology to explore questions that interest them while learning computer science.

PRINCIPLES OF MARKETING/BUSINESS FUNDAMENTALS-----Elective 9-12-----1/2 credit

Prerequisite: None. Offered 1st semester

Students in Business Fundamentals/Principles of Marketing will be introduced to the world of business and prepare for the economic roles of consumer, worker, and citizen. The content may include a study of the business environment and strategies for creating, financing, marketing, and managing a business. Students will understand the role, functions, and institution of marketing in the economy and society, marketing career opportunities and requirements, career planning and necessary personal characteristics for competencies for success. Students will explore digital and social media marketing concepts. This course will serve as a background for other business or marketing courses you may take in high school and college.

PRINCIPLES OF SPORTS and ENTERTAINMENT MARKETING----- Elective 9-12 -----1/2 credit

Prerequisite: Principles of Marketing/Business Fundamentals. Offered 2nd semester

Students will develop skills in determining the economic impact of sports/events, price setting, research, marketing, positioning, product/service management, and promotion and sales strategies. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills.



FAMILY AND CONSUMER SCIENCE

CLOTHING/TEXTILES 1-----Elective 9–12-----1/2 credit

Students in Clothing and Textiles Class will explore such topics as clothing and society, the fashion world, careers in fashion and the textiles industry, color and design, fibers and fabrics, clothing selection – within a budget, care and repair of clothing and textiles in home decor, sewing techniques – both machine and hand stitching and needlework crafts. The students will complete 2 major projects, one of which is constructing a quilt using the various techniques learned in class. The skills learned in this class will be used throughout life when planning, selecting, and caring for clothing and other textile items in the home. There will be a cost involved for the project the students complete and take home.

CLOTHING/TEXTILES 2 (Offered when numbers justify) -----Elective 10–12-----1/2 credit

This course is a continuation of Clothing/Textiles 1. It provides students with knowledge and skills to identify and incorporate design details in textile items for the home or in garments. Students will assess and use commercially produced patterns, and design patterns for use in quilt making. This is a project-oriented class that incorporates all curriculum areas. Sewing lab experiences may include design and construction of one or more projects related to the concepts taught. Students will create a quilt of their own design or approved pattern. There will be a cost involved for materials for the projects the students make and take home.

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NUTRITION & FOOD PREP 1-----Elective 9-10-----1/2 credit

This course is designed to introduce students to the world of Foods and Nutrition and to begin to develop a love of cooking. It will increase their knowledge and skills when working with food. It allows students to discover how the food they eat affects their health. They will investigate and analyze healthy diets and various eating disorders. Students will learn how to plan nutritious and appealing meals. They will prepare foods from each of the food groups as well as teen favorites, including salads, soups, breads, cakes, cookies, appetizers, meats and dairy products. They will also have an opportunity to sample various foods prepared for them as demonstrations by the instructor. They will learn of the importance of safety and sanitation in the kitchen and practice these skills when cooking in the kitchen labs. Students will have a chance to share a food tradition or family favorite food during the two-family tradition feast days.

NUTRITION & FOOD PREP 2----- Elective 11–12-----1/2 credit

Students will have an opportunity to practice many cooking techniques as they prepare a variety of foods from the food groups and various meal courses. Tasting new foods through demonstrations and cooking labs is an important part of the class. Students will spend time investigating food cultures and cuisines of people around the world, preparing many foods from the various countries and enjoying recipes prepared by guest cooks. A highlight of the class is the ethnic taste day and project. Students will also review safety and sanitation in the kitchen as well as the nutrition information necessary for healthy food choices. The skills learned in the class can be used throughout life when planning, selecting and preparing food for themselves and their families.

NUTRITION & FITNESS-----Elective/PE 10-12-----1/2 credit

The purpose of this course is to acquaint students with the basic knowledge, understanding and values of nutrition and physical activity relating to a healthy lifestyle. Students will assess and work towards achieving personal fitness through exercise and nutrition. This is an interdisciplinary class taught by a FACS Teacher and PE Teacher. Labs will be conducted in the FACS department and in the physical education areas.

INDEPENDENT LIVING-----Elective 11–12-----1/2 credit

Independent Living class is designed to help students become better prepared to live on their own. They will begin by taking a close-up view of themselves – their growth and development, personalities, attitudes, and decision-making skills. The second part of the class deals with skills for life, such as careers, a place to live, clothing selection, maintenance and repair, meeting food needs, and managing time and money. The students will learn basic sewing techniques and complete a sewing project, practice safety and sanitation in the kitchen when preparing food items and complete a room design project. This is a class that will benefit everyone as they graduate high school and become independent citizens in our society.

FAMILY LIVING-----Elective 11-12-----1/2 credit

Family Living class is designed to help students meet the challenges of shifting lifestyles and prepare them for future roles. The class looks at past and present customs and family traditions. Using videos, guest speaker presentations, and class discussions, students will look at: dating and peer pressure, decision making and communication skills, marital and family adjustments, family crisis and how to cope, parenting, aging parents, and other current topics related to family living. Students will go through the process/customs involved in becoming engaged, planning for marriage and a wedding – preparing a cost sheet illustrating the actual cost of a wedding. The class is an excellent way to strengthen oneself, to be more effective in their present families, and in turn be effective parents, should they choose to have families of their own.

FOUNDATIONS OF EDUCATION (Dual Credit) -----Elective 11-12-----1/2 credit

This course introduces you to the principles underlying teaching and learning, the responsibilities and duties of educators, and the techniques of facilitating learning. This course exposes students to and trains them in classroom leadership, assessment of progress, teaching strategies, and various career opportunities in the field of education. The course includes observation and interaction with teachers across different grade levels across Jamestown Public Schools.

EDUCATION WORK EXPERIENCE-----Elective 11-12-----1/2 credit

Prerequisite Foundations of Education or Peer to Peer Education

Education Work Experience provides students with work experience in fields related to education. Goals are typically set cooperatively by the student and educator. These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.



FOREIGN LANGUAGE

GERMAN

German is spoken by between 175-220 million people in the world and about 20% of Americans trace their ancestry to one of the German-speaking countries. German ancestry is reported by more than 46% of North Dakotans. Many jobs and careers require knowledge of a foreign language, and many employers consider it to be a great asset. German is very useful in the business world and is especially recommended in the field of high technology, science, and music. More than 1,200 American companies have offices in the German-speaking countries. Self-motivation is necessary for a successful, enjoyable language experience.

GERMAN 1-----Elective 9–12-----1 credit

First-year German introduces you to listening, reading, speaking, and writing in the German language. You will learn to use practical German to speak about yourself, your family, your interests, school, shopping, clothing, ordering food and drinks in a restaurant, and other useful topics. Cultural differences in these areas will be discussed. Additionally, you will learn to express yourself through conversations, skits, videos, audio exercises, songs, computer lab activities, and cooking labs. German Club is strongly encouraged to compliment the first-year German experience. NCAA and NAIA approved course.

GERMAN 2-----Elective 9–12-----1 credit

Prerequisite: German 1

Second-year German reinforces and reviews beginning German language and culture before continuing to develop and enhance higher proficiency skills through a variety of activities including dialogues, skits, audio exercises, computer lab exercises, cooking labs, games, and films. You will become more aware of the contrast between your culture and the German culture. Travel, food, sports, fashion, healthy living, helping at home, and going to the doctor are some of the topics covered. German Club is strongly encouraged to compliment the second-year German experience. Summer travel opportunities are offered on a circumstantial basis. NCAA and NAIA approved course.

GERMAN 3-----Elective 10–12-----1 credit

Prerequisite: German 1, 2-

Emphasis of third-year German is on continued improved of oral and written proficiency skills. A great variety of reading materials, including current literary selections is used to accomplish these goals. Topics include relationships with friends, rights and obligations of young Germans, resistance in German history, environmental issues, plans for the future, and fairy tales. Journaling is expected and students are asked to participate in verbal exchanges in order to develop these proficiencies. German cooking labs are part of third-year German. German Club is strongly encouraged to compliment the third year of German. Summer travel opportunities are offered. NCAA and NAIA approved course.

GERMAN 4-----Elective 11–12-----1 credit

Prerequisite: German 1, 2, 3

The goal of fourth-year German is to build confidence in the use of the language while continuing to improve proficiency. Varied topics and literary selections are used to build reading and comprehension skills. Spontaneity and ease of speech should increase. German 4 is about finding your comfort zone and pushing the boundaries of it. Journaling is expected and students are asked to participate in verbal exchanges in order to develop proficiency. German Club is strongly encouraged to compliment the fourth year of German. Summer travel opportunities are offered. NCAA and NAIA approved course.

SPANISH

Spanish study reflects the needs of modern language learners who want to successfully live in an ever-changing world. Spanish is one of the fastest growing languages in North America and is considered by employers to be a great asset. The processes, inherent in learning a foreign language, aid in the development of thinking skills such as; reasoning, conceptualizing, analyzing and problem solving. It helps develop a better understanding of the nature of language in general and in English in particular. Exposure to foreign language study helps develop sensitivity toward other people and cultures. In an increasingly “smaller” world, that understanding is crucial.

SPANISH 1-----Elective 9–12 ----- 1 credit

This course is an introduction to the language and culture of Spanish. This introduction is through listening, reading, speaking, and writing. The student will use the textbook provided along with tapes, filmstrips, videos, dialogs, and cultural projects. Examples of vocabulary areas of basic communication are greetings, expressions for school, home, family, weather, numbers, and shopping and traveling. Students will be exposed to the variety of customs and traditions in the 22 countries that speak Spanish. Spanish Club is open to all Spanish students. NCAA and NAIA approved course.

SPANISH 2-----Elective 9–12 ----- 1 credit

Prerequisite: Spanish 1

Spanish 2 begins by reviewing the concepts learned in Spanish 1 and continues to assist the students in developing higher proficiency skills through expanded understanding of grammatical concepts, increased oral activities, school to work writing activities and additional listening opportunities. Students increase their cultural knowledge with country studies, which include personal relationships, types of work, appropriate behavior in social and work situations and the cultural differences. Movies, skits, music, literature, and artwork help the students develop further understanding of the cultural differences and similarities. Spanish Club is open to all Spanish students. Travel opportunities may be offered on a circumstantial basis. NCAA and NAIA approved course.

SPANISH 3-----Elective 10–12 -----1 credit

Prerequisite: Spanish 1, 2

Spanish 3 begins with a review and re-entry of the concepts learned in Spanish 1 and 2. Through study of Spanish-speaking countries, students continue to develop an understanding of the Hispanic world and its culture. With the incorporation of reading materials such as current Spanish magazines, novels, and other articles the students develop an appreciation of the Spanish contributions to the arts, agriculture, architecture, and the sciences. They create Spanish art projects, foods, advertisements, etc. to enhance the learning. Emphasis is placed on growth in oral and written proficiency skills. Spanish Club is open to all Spanish students and opportunity for travel is offered. NCAA and NAIA approved course.

SPANISH 4-----Elective 11–12 -----1 credit

Prerequisite: Spanish 1, 2, 3

Spanish 4 begins with a review, re-entry, and expansion of Levels 1, 2, and 3. Emphasis is placed on more abstract vocabulary associated with intellectual activity, criticism, and judgment. Students build confidence in the use of the language by reading a wide variety of material from newspapers to novels. The active vocabulary presented through a wide range of conversational topics allows the student to gain oral and written proficiency skills which allow them to communicate in the modern world. Cultural awareness is continued through music, dramatic arts, literature, and preparation of foods. Spanish Club is open to all Spanish students and travel opportunity is offered. NCAA and NAIA approved course.



LANGUAGE ARTS

Please Note: By virtue of the fact that all the following courses emphasize the mastery of communication skills, it is inherent that such courses are relevant to post-secondary study and/or the real world of work.

ENGLISH 1-----Required 9-----1 credit

Prerequisite: None

This is a year-long required course that uses world literature as a foundation for the study of language arts. The students' communication skills are improved through units of study that stress reading, writing, and speaking. Units of study include: a research paper, Romeo and Juliet, The Odyssey, The Book Thief. Students also continue developing skills with MLA documentation. NCAA and NAIA approved course.

ENGLISH 2-----Required 10-----1 credit

Prerequisite: English 1

This is a year-long required course that uses both fiction and non-fiction as a base for the study of language arts. Students receive instruction in writing, reading, grammar, speech, vocabulary, and other related areas. The research project includes instruction in the MLA method of documentation. Highlights of this course include the reading of the novel To Kill A Mockingbird, Julius Caesar, and a historical analysis unit. Various exciting projects are based on the reading and discussion of these works. NCAA and NAIA approved course.

ENGLISH 3-----Required 11-----1 credit

Prerequisite: English 1 & 2

This is a year-long in which students will complete units focusing on informational texts and literature, poetry, drama, short stories, novels, and essays from early American literature through the present. Types of composition assignments linked to the literature units include exposition, description, narration, and argumentation. NCAA and NAIA approved course.

ENGLISH 4-----Elective 12-----1 credit

Prerequisite: English 1, 2, & 3

A year-long course dedicated to developing reading, writing, speaking, listening, and language usage skills which focuses on world literature and college and career readiness. Students will develop writing and presentations for a variety of purposes and contexts, including argument and informative. NCAA and NAIA approved course.

CREATIVE WRITING (When demand permits)-----Elective 11-12-----1/2 credit

Prerequisite: English 1 and 2 with a "C" average or better.

Creative Writing provides students an opportunity to hone their writing and storytelling skills through various projects across many genres. Analysis of literary forms, elements of the writing process, use of technology, and critique methods are integrated to create unique writing experiences. NCAA and NAIA approved course.

DRAMA (When demand permits) -----Elective 11-12-----1/2 credit

Prerequisite: English 1 and 2 with a "C" average or better.

Drama students gain an understanding and appreciation of theater arts through studying theater history, stage crafts, and acting. Students will read informational texts and dramatic literature. Writing assignments include informative, narrative, and argumentative genres. The course emphasizes verbal and non-verbal communication.

NOVEL (When demand permits) -----Elective 11-12-----1/2 credit

Prerequisite: English 1 and 2 with a "C" average or better

In this course, students examine the novel as a literary form and explore its development in different historical and cultural contexts. Students read selected novels, discuss them, and learn to think and write critically about them. The course will include classic and modern novels from a variety of genres including but not limited to science fiction, historical fiction, fantasy, and coming of age novels. Through the study of various novels, students will analyze a variety of diverse points of view and demonstrate an understanding of how novels reflect the values and concerns of writers and the societies in which they live. NCAA and NAIA approved course.

SPEECH and DEBATE (When demand permits) -----Elective 11-12-----1/2 credit

Prerequisite: English 1 and 2 with a "C" average or better.

This course is designed to provide students with opportunities to improve the public speaking skills that they will need in the future. Students will analyze, prepare, and present several different speeches for a variety of purposes and contexts. By practicing verbal, nonverbal, interpersonal communication, and public speaking skills, students will work to become stronger communicators. NCAA and NAIA approved course.

EARLY COLLEGE LANGUAGE ART OPTIONS

AP ENGLISH LANGUAGE and COMPOSITION ----- Elective 11-----1 credit

Prerequisite: Completion of English 2 with English teacher recommendation, consideration of STARS scores, parent approval, and student commitment statement.

This course is a rigorous, year-long course. It is designed for the motivated 11th grader who wishes to complete a college-level course while in high school. The focus of "Language and Composition" will include both critical reading (style analysis and rhetorical analysis) and writing (argumentation). The student who enrolls in this course will have the opportunity to take an Advanced Placement exam at the end of the year with the possibility of earning college credit. Payment for the exam will be each student's responsibility (cost approximately \$97.00). NCAA and NAIA approved course.

AP ENGLISH LITERATURE and COMPOSITION -----Elective12-----1 credit

Prerequisite: Completion of English 3 or AP English, with English teacher recommendation, parent approval, and student commitment statement.

This course is a rigorous, year-long course. It is designed for the motivated student who wishes to complete a college level course while in high school. The student will read a variety of literature drawn from multiple genres, periods and cultures. Students will reflect on the reading material through discussions, writing and rewriting. The student who enrolls in this course may take an Advanced Placement exam at the end of the year with the possibility of earning college credit. Payment for the exam will be each student's responsibility (cost approximately \$97.00). NCAA and NAIA approved course.

COMPOSITION 110 -----Elective 12 -----1/2 credit

Prerequisite: Placement test.

An introduction to college-level writing as a process of drafting, revising, and editing. This course emphasizes critical reading, writing, thinking, and research skills as students write for a variety of audiences and purposes. Students will receive guided instruction in the writing process as they begin writing based on personal experiences. An introduction to proper crediting of source material and research will occur toward the end of the course. Accuplacer test will be needed if you did not receive 18 or higher on the Reading & English portion of ACT. NCAA and NAIA approved course.

COMPOSITION 120 -----Elective 12 ----- 1/2 credit

Prerequisite: English 110.

Continued practice of college-level writing process and strategies, building on skills learned in English 110. This course refines critical reading, writing, thinking, and research skills. Students will practice summary and analysis of texts, as well as synthesizing information from primary and secondary sources. Writing assignments will emphasize logical argument, persuasion, and collaboration. Major assignments will require proper crediting of source material and research. NCAA and NAIA approved course.

WORLD LITERATURE-----Elective 11-12-----1/2 credit

Prerequisite: English 1 and 2 with a "C" average or better.

This is a course intended to provide students with a diverse and focused background in world literature. A rich diversity of traditional and modern literary forms is offered to develop the student's understanding and appreciation of not only the literature of other cultures, but the cultures themselves. Thought-provoking composition topics are extensions of the units of study. In addition to readings from the textbook, an African novel unit on Chinua Achebe's *Things Fall Apart* will be incorporated. This course has a dual credit option through NDSCS in Wahpeton. NCAA and NAIA approved course.

JHS MULTI-TIERED SYSTEM OF SUPPORT (MTSS)

We, at Jamestown Public Schools, are constantly striving for ways to support all our students in becoming academically successful. Through our Multi-Tier System of Supports (MTSS), we are able to teach each child at their level of performance and rate of progression. Students who are identified as needing additional support in their learning will be receiving instruction in a research-based reading or math intervention. These interventions have been proven to show results in student achievement.

To determine whether a student qualifies for a reading or math intervention, our schools use the STAR Assessment, NDSA data, grades, and teacher perception data. The STAR Assessment is a universal screening that we use to show the progress of all students in our district. Once a student is identified, they are given a placement test within the intervention for which they qualify.

Data analysis and decision making occur at all levels of instruction and intervention within an MTSS system for English Language Arts and Math. Benchmark, Strategic, and Intensive class offerings are informed directly by student performance data. All measures used at JHS produce normative data based on national sample populations.

SOME Students Take:	FEW Students Take:
<p style="text-align: center;">Achieve3000 Level Set</p> <ul style="list-style-type: none"> -Computer Adaptive Assessment -Criterion Referenced -Measures a specific set of skills -Used to match appropriately-leveled text or problem sets in Math to student skill needs <p style="text-align: center;">Scholastic Reading Inventory</p> <ul style="list-style-type: none"> -Computer Adaptive Assessment -Criterion Referenced -Measures Reading Comprehension 	<p style="text-align: center;">Diagnostic Assessments of Reading</p> <ul style="list-style-type: none"> -Comprehensive assessment of Student reading ability in five areas: <ul style="list-style-type: none"> phonemic awareness, phonics, vocabulary development, reading fluency and reading comprehension. -Allows reading specialists to diagnose a student's difficulties in reading

Our Intervention program descriptions are listed as pre-approved courses in our course offerings for each content area.

SENIOR WORK BASED LEARNING COURSES

Work Based Learning offers students an opportunity to gain hands on experience in the 21st Century world of work. These courses are designed for JHS Seniors to enhance their educational experience and personal growth. Students may earn up to one credit in Work Based Learning Courses. Jamestown High School offers two options for Work Based Learning:

Notes:

- ***Senior Internship and Senior Innovation and Invention Project are period 7 and 8 courses with some flexibility stipulated in the Handbooks.***
- ***Students must complete Innovation and Invention or Internship Application and return it with registration form.***

SENIOR INTERNSHIP (out-of-school) -----Elective 12----- 1/2 or 1 credit
(60 hours on site per ½ credit)

Internships are work based opportunities where students apply the knowledge and skills, they have gained at JHS at local internship sites. Internships should be targeted toward meaningful experiences that explore careers requiring additional degrees, certifications or on-the-job training following high school. Unlike typical high school employment, the students participate in structured activities, feedback, and reflection that is connected to their classroom experience and employability skills. The internship offers students an extensive employment opportunity to confirm their future education and training decisions or to choose another path. Students will develop an internship portfolio, attend weekly seminars, complete reflections, and develop a learning plan and presentation of learning. Please refer to the JHS internship handbook for further guidance.

SENIOR CAREER INVENTION PROJECT -----Elective 12----- 1 credit

Senior Career Invention Projects are semester long projects focused on applying the knowledge and skills you have gained at JHS to an authentic design project in a career field that interests you. Individually, or in teams of up to three, students will apply by developing design project proposals outlining the design project they intend to pursue. Students will work to find a local or regional mentor/expert for the project, develop timelines, attend weekly seminars, and complete reflections on the progress of the project and the application of their employability skills. This culminating project reflects individual or group commitment to a shared purpose and outcome. Students are challenged by mentors and teachers serving as facilitators of learning to apply the Design Process and entrepreneurial skills in real world contexts. Students focus on solving real world problems utilizing prior knowledge and skills to advance their current state while generating enthusiasm for lifelong learning. Each student is expected to develop and publish artifacts and reflections that demonstrate educational and personal growth. Please refer to the JHS Career Invention Project Handbook for further guidance.

SERVICE LEARNING/EDUCATION COURSES

Service-Learning offers students a chance to do something significant for other people in their community while enhancing their educational experience and personal growth. Students may earn up to one credit toward graduation by serving as a volunteer in the school or through a non-profit agency. Jamestown High School offers several options for service-learning:

Note:

- **Students must complete Service Learning Application and return it with registration form**

SERVICE-LEARNING OPTIONS-----Elective 9-12-----1/2 / 1 credit

WORK STUDY/TEACHING ASSISTANT

A Service-learning experience during school hours is an opportunity to provide service in the school community. Students work with a teacher to provide service for 50 minutes every day during the semester.

COMMUNITY (out-of-school)

An out-of-school service-learning experience is an opportunity for students to serve the community through the school or a non-profit organization. It is open to individuals or groups that are interested in carrying out a service project within the school/community. Projects will be vetted with school administration and experiences may include fundraising, designing solutions, research, planning, and community presentations. It can be project-based or a series of projects throughout the semester providing service to others. An out-of-school service experience requires a minimum of 60 service hours.

MAKERSPACE AND TECHNOLOGY HELPDESK

The Makerspace and Technology helpdesk service-learning opportunity is available for up to 7 students per semester and includes monitoring and supporting activities in the school Makerspace as well as providing initial Technology support for student and staff devices.

COMMUNITY GATHERING TEAM

Community Gathering Organizer is a service-learning opportunity for a team of up to 20 students. This school team focuses on the development of programs for Monday community gatherings. The purpose of community gatherings is to build school culture through teambuilding, scholarship, and career exploration. This is only a period 1 or 8 elective course and participants will gain valuable experience in event planning, connecting with community resources, leadership, and event coordination.

STRATEGIC INITIATIVES TEAM

The Strategic Initiatives Team is a period 8 elective available for grades 11-12. This student led team works with community partners and site administrators to identify and develop new programs and relationships that strengthen the school and community. The experience develops and refines leadership through experience in solving complex problems and navigating the change process.

PEER TUTORING

Peer tutoring provides an opportunity for students to develop and hone their academic skills while supporting others. Peer tutoring can take place during any period of the day or before/after school as scheduled in the restricted study hall or library.

TEACHER AIDE has changed to EDUCATION WORK EXPERIENCE please see the FACS section of this book.

LIBRARY AIDE -----Elective 10-12 -----1/2 / 1 credit

Students will gain experience as librarians by finding material for students during research classes, by assisting in simple duties with book processing and by working at the circulation desk giving service to students and teachers. Other duties include learning library and computer skills and assisting in routine tasks. Students assigned to Library Aide must be approved by the senior high principal or assistant principal and librarian.

PEER TO PEER-----Elective 10-12-----1/2 credit

This course teaches students about persons with disabilities and exceptionalities. The goal of peer to peer is to ensure inclusion in school classrooms and school extracurricular activities for all students. The training and education provides exposure to career opportunities in the field of education of students with disabilities exceptionalities and prepares students for supporting students as peer tutors/mentors.

PREAPPROVED COURSES

ENGLISH INTERVENTION-----Preapproved 9-----1 credit

English Intervention focuses on improving students' reading and writing skills using the Read 180 program. This class is completely individualized to students' needs.

DEVELOPMENTAL READING AND WRITING-----Preapproved 9-----1 credit

Developmental Reading/Writing offers students the opportunity to focus on their reading and writing skills. Assistance is targeted to key priority standards in relation to students' particular weaknesses and is designed to bring students' reading comprehension and writing skills up to the desired level or to develop strategies to read and write more efficiently.

DEVELOPMENTAL READING AND WRITING-----Preapproved 10-----1 credit

Developmental Reading/Writing offers students the opportunity to focus on their reading and writing skills. Assistance is targeted to key priority standards in relation to students' particular weaknesses and is designed to bring students' reading comprehension and writing skills up to the desired level or to develop strategies to read and write more efficiently.

APPLIED COMMUNICATIONS-----Preapproved 11-----1 credit

Applied Communications provides students the opportunity to develop and refine communication skills through competency based individual and group learning in job-related communication skills: reading, writing, listening, speaking, problem-solving, visual, and nonverbal communication. These communication skills will be applied to occupations in the areas of agriculture, business/marketing, health occupations, home economics, and technical/trade/industry.

BUSINESS ENGLISH-----Preapproved 12-----1 credit

Students' study and practice writing fundamentals, develop reading fluency and comprehension skills, expand vocabulary and polish grammatical skills. Students will read informational texts along with British and American literature short stories, essays, plays and poetry. The course objectives revolve around improving basic literacy skills and preparing for communications needed in future careers. This course requires a recommendation from the student's previous English teacher and the counselors. Permission to take the course is granted on a limited basis.

MATHEMATICS

JHS Math Student Class Recommendation Protocols

Career Ready Pathway (Certificates or 2 Yr)		College/Tech Ready Pathway (2 – 4 Yr)		Competitive College Ready Pathway (2 – 4 Yr)	
Essentials for Algebra	Completed and passed Trans Math 3 (verified by standardized assessments)	Algebra 1	Completed and passed Grade 8 Math or Essentials for Algebra with a 80% or higher (verified by standardized assessments)	Algebra 1	Completed and passed Grade 8 Math with 80% or higher or completed and passed Essentials for Algebra with 80% or higher (verified by standardized assessments)
Occupationally Applied Math	Completed and passed Essentials for Algebra or completed and passed Grade 8 Math with a 65- 79% (verified by standardized assessments)	Geometry	Completed and passed Algebra 1 or Occupationally Applied Math or Applied Geometry with a 80% or higher (verified by standardized assessments)	Geometry	Completed and passed Algebra 1 with 80% or higher (verified by standardized assessments)
Applied Geometry	Completed and passed Algebra 1 with a 65% - 79% or completed and passed Occupationally Applied Math (verified by standardized assessments)	Algebra 2	Completed and passed Geometry with a 80% or higher or Applied Geometry with an 90% or higher (verified by standardized assessments)	Algebra 2	Completed and passed Geometry with 80% or higher (verified by standardized assessments)
Consumer Math	Junior or Senior as a 3rd or 4th math credit	Statistics	Accuplacer or ACT score of 21 or higher	Precalculus	Completed and passed Algebra 2 with 80% or higher
General Applied Math	Math Instructor Recommendation	College Algebra	Accuplacer or ACT score of 21 or higher	AP Calculus	Completed and passed Pre-Calc with a C or higher
		College Ready Math (online only)	College-bound juniors who have historically struggled in math or seniors who have not met the benchmark score of 21 on their ACT in math.		

****Students who wish to contest this placement recommendation or to take two math courses simultaneously may request a team meeting to review data and pro/con session with their current math instructor, HS Instructional Coach, and Principal.**

ESSENTIALS FOR ALGEBRA -----Elective 9-11-----1 credit

Essentials for Algebra is a master-based intensive intervention that provides key foundational skill-building, problem solving strategies needed to be successful in Algebra. It includes concepts and applications found in Algebra 1. It is broken down into 120 mini lessons where students will continue to skill build until mastery. **Students will be placed in this course only with the recommendation of the Math Department.**

OCCUPATIONALLY APPLIED MATH -----Elective 9-11 -----1 credit

This course reinforces general math skills, as it extends these skills to include some prealgebra and algebra topics and uses these skills primarily in occupational applications. Course topics typically include rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations. **Students will be placed in this course only with the recommendation of the Math Department.**

CONSUMER MATH -----Elective 11-12-----1 credit

This math course is designed to prepare students to function as wise consumers in our society. It is intended primarily for those students planning to enter the world of work immediately upon graduation from high school. Topics include basic geometry, personal finance, checking and savings accounts, insurance, installment buying, credit costs, investments, taxes, sales commissions, net pay, wages, overtime, and other skills required to function as an independent adult. **Students will be placed in this course only with the recommendation of the Math Department.** This course does not meet the math requirements for the ND State Board of Higher Education.

ALGEBRA 1 -----Elective 9-10-----1 credit

This course is pre-vocational in the sense that it is a prerequisite to further work in preparing for an engineering career or for scientific research. It is an elective for those students who find algebra an entrance requirement for the college of their choice. Algebra teaches the use of letters in the number system and how the laws of arithmetic function with letters used as numbers. NCAA and NAIA approved course.

APPLIED GEOMETRY -----Elective 10-12 -----1 credit

Students will understand the basic facts and properties about points, lines, planes, parallel and perpendicular lines, triangles, polygons (with emphasis on quadrilaterals), circles, and three-dimensional figures. Problem solving will involve the use of formulas, such as distance, midpoint, slope, area, volume, the Pythagorean Theorem, and trigonometric ratios. Emphasis will be on connecting geometry to real-world situations to solve problems, especially related to algebra, everyday life, navigation, architecture, and art. Concepts will be studied using tools which may include the ruler, compass, protractor, calculator, and geometric software. **Students will be placed in this course only with the recommendation of the Math Department.**

GEOMETRY -----Elective 9-11-----1 credit

Plane & solid geometry is the study of relationships among points, lines & planes. Logical thinking is learned as step-by-step proofs are developed in working problems. Practice is given in construction of geometric figures with a compass & straightedge. NCAA and NAIA approved course.

ALGEBRA 2 -----Elective 10-12-----1 credit

Prerequisite: Algebra 1 & Geometry

This class is a continuation of mathematical ideas from elementary algebra. The structure of the number system, more symbolism and greater competence in computation, and the application of algebra to life situations are stressed. NCAA and NAIA approved course.

PRE-CALCULUS-----Elective 11-12-----1 credit

Prerequisite: Algebra 1, 2, & Geometry

This is basically a college preparatory course. Pre-Calculus is strongly recommended for students planning to enter the world of math, science, or engineering. Some of the topics included are a continuation of Algebra 2 and analytic geometry, analytic trigonometry, function concepts, and exponential growth. NCAA and NAIA approved course.

PROBABILITY & STATISTICS DC ----- Elective 11-12-----1/2 credit

Prerequisite: Completed Algebra 2

This is a college level course for students interested in careers in mathematics, science, engineering, and data analysis. Topics focus on methods of gathering, presenting, and analyzing data. A graphing calculator is required for this class. You will be required to score high enough in an Accuplacer test or receive a 21 on the ACT Math portion. NCAA and NAIA approved course.

ADVANCED PLACEMENT CALCULUS -----Elective 12-----1 credit

Prerequisite: Pre-Calculus prior to senior year.

AP Calculus is taught as a college level Calculus 1 course. This course involves: limits, differentiation of algebraic functions with applications, logarithmic and exponential functions, anti-differentiation, the definite integral with applications, and techniques of integration. Students are expected to take the Advanced Placement exam in May. Students who pass the exam can receive college credit at most colleges and universities in the nation. NCAA and NAIA approved course.

COLLEGE ALGEBRA DC-----Elective 11-12 -----1/2 credit

Prerequisite: Completed Algebra 2

College Algebra is an introductory course to algebra at the college level. The course is designed to familiarize learners with fundamental mathematical concepts such as inequalities, polynomials, linear and quadratic equations, and logarithmic and exponential functions. Upon course completion, learners will be able to apply a variety of problem-solving strategies to find solutions to an array of real-life problems. A review of exponents, order of operations, factoring, and simplifying polynomial, rational, and radical expressions. Topics include linear, quadratic, polynomial, rational, inverse, exponential, and logarithmic functions, and their applications. Students will solve equations involving these functions, and systems of linear equations in two variables, as well as inequalities. You will be required to score high enough in an Accuplacer test or receive a 21 on the ACT Math portion. NCAA and NAIA approved course.

COLLEGE READY MATH (CRM) -----Elective 11-12-----1 credit

College Learning Lab-Math focuses on preparing the student for collegiate studies, specifically to mathematics. The student will be engaged in educational experiences regarding mathematical methods for solving equations and word problems. The course will refresh students regarding equations, number systems, algebra, geometry, ratio, and analytical reasoning. NOTE: This course code is designed to be used exclusively with the Pearson MyFoundationsLab platform through the CREAM programs

****If a student passes the first semester of a math course but doesn't pass the second semester and doesn't make up the failed semester during summer school, the student will be encouraged to repeat the entire year of the failed course rather than just the 2nd semester. The 1st semester will count as an elective credit for graduation and serve as a review of necessary math concepts to help the student be successful in the 2nd semester of the course.**



MUSIC

WIND ENSEMBLE-----Elective 11-12 Audition Only-----1 credit

The Wind Ensemble is an auditioned group of juniors and seniors. Members are selected by an audition in the spring of the previous school year. Wind Ensemble is a course, so the group rehearses every school day and students' grades counts towards their Grade Point Average. The Wind Ensemble performs a variety of concert band repertoire at the highest level of difficulty of all bands in the school. Students from the Wind Ensemble along with the Concert Band and Symphonic Band make up the Marching Band and Pep Band.

CONCERT BAND-----Elective 10-12-----1 credit

The Concert Band is a non-auditioned group of sophomores through seniors. Concert Band is a course, so the group rehearses every school day and students' grades counts towards their Grade Point Average. The Concert Band performs a wonderful variety of concert band repertoire. Students from the Concert Band along with the Wind Ensemble and Symphonic Band make up the Marching Band and Pep Band.

BAND 9 (SYMPHONIC BAND) -----Elective 9-----1 credit

The Symphonic Band is a group of freshmen musicians who just finished their middle school band experience. Due to unique scheduling circumstances, there will occasionally be older students in this class. Symphonic Band is a course, so the group rehearses every school day and students' grades counts towards their Grade Point Average. The Symphonic Band performs a variety of concert band repertoire that continues to develop technique and musicianship. Students from the Symphonic Band along with the Wind Ensemble and Concert Band make up the Marching Band and Pep Band.

BLUE JAY JAZZ ENSEMBLE-----9-12 Audition Only-----no credit

The Blue Jay Jazz Ensemble is an auditioned group that is comprised of talented woodwind, brass, percussion, and keyboard musicians from any of the three concert bands at JHS. Members are selected by an audition in May of the previous school year. This group rehearses on Mondays and Thursdays from 7:00 am – 7:40 am. During the winter and spring months, the Blue Jay Jazz Ensemble will perform a number of concerts in the city of Jamestown and participate in a jazz festival out of town. Instruments to be seen in the jazz ensemble are *saxophone, trombone, trumpet, bass, guitar, piano, and drums*.

PRIVATE INSTRUMENTAL LESSONS-----Voluntary-----no credit

Students have the opportunity to take free instrumental lessons. Private lessons are a great way to prepare for auditions, solos, ensembles, and music from band class.

ORCHESTRA -----Elective 9–12-----1 credit

The orchestra consists of members from grades nine through twelve. Members are admitted when their playing proficiency allows them to function effectively within the group. String students in grades 9-12 rehearse together five hours a week for one credit. This grade counts toward their GPA. String members of the orchestra have the opportunity to perform solos and in smaller ensembles as well. This group participates in the State Orchestra Festival, instrumental contest, and All State Orchestra.

CONCERT CHOIR-----Elective 10–12-----1 credit

Choir rehearses five times each week and members receive 1 credit for their participation in the group. The grade received counts toward their GPA. The Concert Choir is actively involved in providing music for concerts, special school events and civic functions. A fundamental techniques course of study is followed with testing each nine weeks – the results make up part of the nine weeks grade received in choir.

CHOIR 9 -----Elective 9-----1 credit

Choir rehearses five times each week and members receive 1 credit for their participation in the group. The grade received counts toward their GPA. The Choir is actively involved in providing music for concerts, special school events and civic functions. A fundamental techniques course of study is followed with testing each nine weeks – the results make up part of the nine weeks grade.

SHOW CHOIR -----Audition Only-----no credit

Prerequisite: Must be enrolled in Concert Choir

This group meets Tuesday and Friday at 7:00 am. They perform pop and show tunes with choreography. They perform for competition and for many community events.

VOCAL JAZZ -----Audition Only 11-12-----1/2 credit

Prerequisite: Must be enrolled in Concert Choir

Vocal Jazz is an auditioned group open to Juniors and Seniors which meets twice a week during 7th hour and does multiple performances throughout the year. Students audition on a cappella selection in SATB ensembles. Students will learn about Jazz/Pop Techniques including scat singing and improvisation.

MUSIC THEORY -----11 - 12-----1/2 credit

Music Theory is a year-long class that meets twice a week during 7th hour with an additional one hour per week computer time required. Students enrolled in the class should be able to read music notation. Students will work with notation, chord structures and composition.

PRIVATE VOCAL LESSONS/ENSEMBLES/POP GROUP-----Voluntary-----no credit

Students have the opportunity to take free voice lessons, participate in an ensemble of their choosing or form a "POP" group which can be expanded to include choreography. All opportunities for extra participation meet once each week with the choral director. Participation in Honor Groups and District and State Festivals is encouraged.

INTRODUCTION TO GUITAR & WORLD MUSIC-----9-12-----1/2 credit

This class is a 1 semester class where students earn ½ credit. The class meets every school day and the students' grades counts towards their Grade Point Average. It is designed for students interested in learning **beginning guitar**. No experience in music is necessary. This class is NOT designed for students who already play the guitar. This is a hands-on class where students will learn to play the guitar together in group instruction. Students will learn to read notes on the music staff, chords and strumming patterns. The class will be exposed to a variety of musical styles from around the world. Guitars will be provided for class use.



NATURAL SCIENCE

Ninth grade physical science is the first unit counting toward graduation requirements. The recommended sequence of science courses is biology in the 10th grade, chemistry in the 11th grade, and physics and/or anatomy–physiology in the 12th grade. Three credits of science are required for graduation. North Dakota University System requires three credits of science to meet admission requirements.

PHYSICAL SCIENCE-----Required 9-----1 credit

Physical science is the study of basic Chemistry and Physics. The first semester of the course covers mostly Chemistry topics. Topics will include: the study of atomic structure, study of the periodic table, chemical bonds, chemical formulas, chemical reactions, solutions, acids, bases and salts and nuclear decay. The second semester covers mostly Physics topics. Topics will include forces, motion, energy, waves, optics of lenses and mirrors, sound and electricity. Physical Science is a laboratory centered program which introduces the use of proper lab techniques and safety. The course will include about 30-35 different lab experiments and computer simulations. Emphasis is placed on building a strong background in science vocabulary and lab procedures. NCAA and NAIA approved course.

BIOLOGY -----Elective 10–12-----1 credit

Biology is the study of life. The course of study begins at the molecular level and proceeds through cell tissues, organisms, the origin of life, populations, and ecosystems. Approximately forty percent of class time is spent in the laboratory. Students are required to complete a laboratory project each of the first three nine weeks, such as a twenty-five specimen plant collection. NCAA and NAIA approved course.

ENVIRONMENTAL SCIENCE-----Elective 11-12-----1 credit

Prerequisite: Physical Science, Biology, or authorization

Environmental science is an interdisciplinary study of natural systems, environmental issues, risks associated with these problems and alternative solutions. Students will study science as a process, energy in ecosystems, Earth systems, human impacts, societal context and designing solutions. The course is designed for students of all ability levels and interests. NCAA and NAIA approved course.

CHEMISTRY STUDY -----Elective 11–12-----1 credit

Prerequisite: Algebra 1 "C" grade or better or authorization.

The purpose of the course is to help students gain some understanding of the facts and principles of chemistry so that they can better deal with their world. This course places emphasis on college preparation. Students interested in career outlook clusters such as: natural resources, engineering/industrial technologies, and health and human services should consider this course. Chemistry is the study of: matter, its structure, properties, composition, and the changes that matter undergoes. Students will: attend lectures, do problem solving, and participate in laboratory activities. NCAA and NAIA approved course.

AP CHEMISTRY-----Elective 11–12-----1 credit

This AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. For most students, the course enables them to undertake, as a freshman, second year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. This course is structured around the six big ideas articulated in the AP Chemistry curriculum framework provided by the College Board. A special emphasis will be placed on the seven science practices, which capture important aspects of the work that scientists engage in, with learning objectives that combine content with inquiry and reasoning skills.

Big Idea 1: Structure of matter

Big Idea 2: Properties of matter-characteristics, states, and forces of attraction

Big Idea 3: Chemical reactions

Big Idea 4: Rates of chemical reactions

Big Idea 5: Thermodynamics

Big Idea 6: Equilibrium

NCAA and NAIA approved course.

PHYSICS-----Elective 11-12-----1 credit

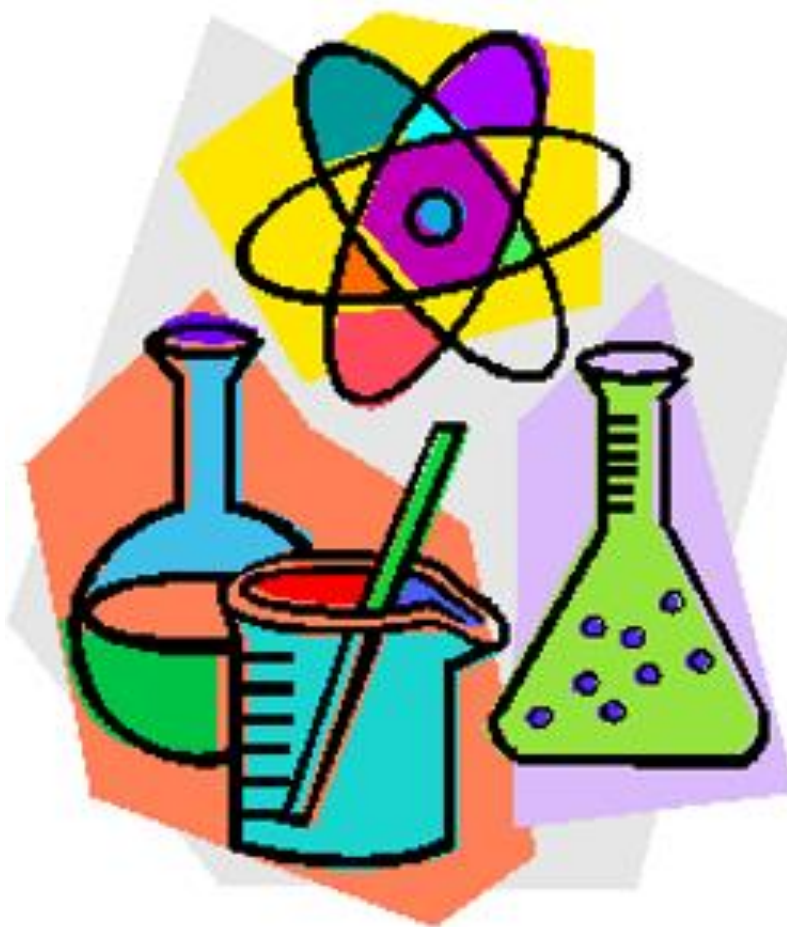
Prerequisite: Algebra 2 and Geometry

The purpose of this course is to help students gain some understanding of this ever-evolving body of information and how it applies to them. Emphasis is placed on college preparation. Students interested in career outlook clusters such as: natural resources, engineering/industrial technologies, and health and human services should consider this course. The course covers the branch of science concerned with matter and energy, especially as these relate to mechanics, heat, electricity, magnetism, and atomic phenomena. Students will attend lecture, participate in problem solving sessions, and do laboratory investigations. NCAA and NAIA approved course.

ANATOMY/PHYSIOLOGY-----Elective 11-12-----1 credit

Prerequisite: Biology

Anatomy/Physiology is the study of structure and function of the human body. It provides an above average high school vocabulary which will help students in basic and advanced college science courses. The class consists of hands-on dissection of the cat as well as other labs pertaining to human anatomy. A strong biology background is recommended. This course has a dual credit option through NDSCS in Wahpeton. NCAA and NAIA approved course.



PHYSICAL EDUCATION/HEALTH

One credit of physical education and ½ credit of health is required for graduation.

INDIVIDUAL / TEAM SPORTS-----Elective 9-10-----1/2 credit

This course will expose students to the techniques / rules / strategies / sportsmanship of team sports such as but are not limited to Basketball, Volleyball, Flag Football, Softball, Whiffle ball, Floor Hockey, Soccer, Badminton, Speed Minton, Archery, Pickle ball, and Tennis.

HEALTH -----Required 9 or 10-----1/2 credit

The Health class will cover all aspects of physical, mental, and emotional health of an individual. Students will have the opportunity to become certified in CPR/AED. They also will have the opportunity to be part of the CERT (Community Emergency Response Team) program. Students would need to take a semester of Health sometime during their Sophomore or Freshmen year.

LIFEGUARD AND WATER SAFETY -----Elective 9 – 12 -----1/4 credit

Lifeguard and Water Safety helps students develop skills useful or necessary in an aquatic environment. Activities will focus on lifesaving skill development, training, and education in a team-oriented work environment. Coursework is developed and scheduled at the Two Rivers Activity Center (TRAC) and will typically be afternoons/evenings. Certifications in Lifeguarding, CPR/AED included in this course work.

LIVING SPORTS -----Elective 11- 12-----1/2 credit

Living sports is designed to teach the rules, skills, and appreciation of sports and activities that may be carried on throughout a student's lifetime. The course will include both individual and team sports that provide a wise use of leisure time and the means to stay fit for life. The sports concentrated on are, but not limited to yard games, volleyball, softball, tennis, golf, horseshoes, disc golf, basketball, whiffle ball, badminton, ice skating, bowling, and archery. Proper dress will be athletic clothing when the activity calls for it. Students will be notified when casual clothing will be appropriate. Clothing must also follow the dress code outlined in the JHS planner. There will be a moderate charge to students taking the class.

DANCE-----Elective 9-12-----1/2 credit

Dance class meets five times per week. Dance will provide students with experiences in different dance forms and are usually introductory in nature. The areas of dance concentrated on are, but not limited to, country line dance, circle, folk, fox trot, Latin, line, polka, square, swing and waltz. Proper dress will be athletic clothing and shoes. Clothes must follow the dress code as outlined in the JHS planner.

BEGINNING STRENGTH DEVELOPMENT-----Elective 9-10-----1/2 credit

This is a semester course that provides students with a working knowledge / understanding how to safely perform & train the total body in a weight room setting. Following proper progressions in learning how to squat, bench press, & deadlift in a safe & efficient manner. Applying principles of strength training overload concepts, proper training techniques, nutrition, how to work side by side others, gain increased confidence / self-esteem & learn how to develop their bodies through strength training.

ADVANCED STRENGTH DEVELOPMENT-----Elective 11-12-----1/2 credit

This is a semester course that is for Juniors / Seniors that is an extension of Beginning Strength Development. It would be helpful to have the Beginning Strength, but not completely necessary. Additional instruction on the techniques of Olympic weightlifting techniques / progressions, how to setup programming for oneself based on what they have or don't have access to, & show that you don't need a lot of fancy equipment to get a quality workout in and lead a healthy lifestyle. The goal for every student to be able to walk into any weight room / fitness facility and be able to put together a workout for themselves. No matter what equipment is or is not available.

FEMALE STRENGTH DEVELOPMENT-----Elective 9-12-----1/2 credit

This is a semester course is designed strictly for Females in grades 9-12. This course will focus on working knowledge / understanding how to safely perform & train the total body in a weight room setting. Following proper progressions in learning how to squat, bench press, & deadlift in a safe & efficient manner. Applying principles of strength training overload concepts, proper training techniques, nutrition, how to work side by side others, gain increased confidence / self-esteem & to physically learn how to develop their bodies through strength training.

STRENGTH & CONDITIONING-----Elective 9-12-----1/2 credit

The focus of the class will be on improving strength and conditioning performance factors. High intensity levels of training will be done focusing on development of speed, agility, quickness, jumping ability, and mobility. Strength training and the use of Olympics lifts will be utilized to develop muscular power. The course runs during zero hour 6:30am - 7:20am.

TRIATHALON-----Elective 9-12-----1/2 credit

Triathlon training is the perfect full body workout. Students would learn the lifelong sports of swimming, biking, and running. Students can expect to learn and develop from a curriculum that inspires and supports their sporting ambitions. All students will be supported with an individualized training schedule and program to meet their needs and goals. Typically having 5 sessions a week with a breakdown of 1 swim, 1 run, 1 bike, and 1 transition day cycled through the weeks. Students would not need any prior triathlon, swimming, running or biking knowledge to enroll in this course, all abilities are welcome.



SOCIAL STUDIES

Ninth grade civics is the first credit counting toward graduation. Four credits of social studies are required for graduation.

CIVICS-----Required 9 ----- Elective 10-12*-----1/2 credit

***This course does not replace the required Social Studies courses for 10-12 students (World History, United States History, Government and Economics) but may be used as an elective.**

Civics is the study of what it means to be an American citizen. This course provides a broad overview of democratic principles, federal government structures, state/local government issues, the political process, the American economy and what it means to be an active participant in society. Special attention will be given to preparation for the required ND citizenship exam. NCAA and NAIA approved course.

NORTH DAKOTA STUDIES-----Required 9-----1/2 credit

***This course does not replace the required Social Studies courses for 10-12 students (World History, United States History, Government and Economics) but may be used as an elective.**

North Dakota Studies is the study of North Dakota social studies in several areas including history, culture, geography, politics, and economics. It is the freshman companion course to Civics. NCAA and NAIA approved course.

WORLD HISTORY-----Required 10-----1 credit

World History is more than just a series of dramatic events. It is the story of the human community – how people lived daily, how they shared ideas, how they ruled and were ruled, and how they fought. World History includes subjects like economics, politics, and social change. It covers past and present cultures, religious inspiration, artistic movements, and the study of human movement through Geography. NCAA and NAIA approved course.

UNITED STATES HISTORY-----Required 11-----1 credit

Gain insight into relationships among people, ideas, and events, learn and use significant facts of United States History. Students will develop an appreciation of history, including literature, music, architecture, and the fine arts while improving fundamental skills, such as reading, listening, speaking, writing, interpreting graphic material, using maps, outlining and use of source material. Critical thinking skills such as recognizing and defining problems and issues, evaluating information and sources, and distinguishing fact from opinion will be emphasized. Value concepts, such as dignity of human beings, respect for law, freedom and equality, duties as well as rights, and a democracy as an ideology and way of life are examined. Time period covered is 1900 to present. NCAA and NAIA approved course.

AP UNITED STATES HISTORY-----Elective 11 -----1 credit

In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. The course also provides eight themes that students explore throughout the course to make connections among historical developments in different times and places: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures. NCAA and NAIA approved course.

AP US GOVERNMENT & POLITICS-----Elective 12-----1/2 credit

This course will give students an analytical perspective on government and politics in America. Topics will include constitutional foundations of American government, political beliefs and behaviors, political parties, interest groups and mass media, institutions of national government, public policy, and civil rights and civil liberties. This course is an elective but would replace regular Government as a required class. The student who enrolls in this course will have the opportunity to take an Advanced Placement exam at the end of the year with the possibility of earning college credit. Payment for the exam will be each student's responsibility (cost approximately \$87.00). NCAA and NAIA approved course.

ECONOMICS-----Required 12-----1/2 credit

The science of economics deals with making choices about using resources and spending money. This course's major focus is the study of how the goods and services a society wants are produced and how they are distributed among people. The course emphasizes significant aspects of our free enterprise system and better decision making on the part of consumers. This course has a dual credit option through NDSCS in Wahpeton. NCAA and NAIA approved course.

GOVERNMENT-----Required 12-----1/2 credit

This course focuses on the study of how power, politics, & government work in America. Special emphasis will be given to the need for citizen involvement, current events as they relate to the course outline & problems in our democracy. NCAA and NAIA approved course.

PSYCHOLOGY-----Elective 10-12-----1/2 credit

This course deals with the study of how the human mind works together with the body to produce thoughts and actions. Topics include Historical psychology philosophy, careers, research, learning, human development, personality, mental disorders and treatment. This is an excellent class for those who may take a psychology class in college or be interested in a career in a mental health profession. The class is taught as a college prep course. Student assessment will include writing papers. Computer access is also important. NCAA and NAIA approved course.

AP PSYCHOLOGY-----Elective 11-12-----1/2 credit

AP Psychology is the study of human and animal thought processes and behavior. This is an exciting and interesting subject in which we will investigate many aspects of human behavior from the biology of the brain and body to maladaptive behavior. This course emphasizes real life applications of behavioral knowledge to give you a better understanding of the world. This is a positive and active class where class participation and involvement is expected of every student and team building is developed to encourage necessary study skills needed in college and in the workplace. This is a college level course, and you will be expected to do the work of a college level student in preparation for taking the Advanced Placement exam. This test is 100 multiple choice and 2 free response questions done in 2 hours. The test is graded on a scale of 1-5. Three is passing and accepted by many colleges as AP credit. Some colleges ask for a score of 4 or 5 on the exam to give college credit. NCAA and NAIA approved course.

SOCIOLOGY-----Elective 11-12-----1/2 credit

The study of people's behavior in groups is the focus of this class. Emphasis will be placed on culture, social institutions, social problems, and the process of change in society. Specific topics can include deviance and social control, the family, education, and gerontology. NCAA and NAIA approved course.



SPECIAL EDUCATION

Jamestown Public Schools offer a variety of services for students who are found eligible. Eligibility is based upon a team process including individualized testing and teacher, specialist, and parent input. Appropriate services are then determined.

The following services/programs are available through Jamestown High School:

Emotionally Disturbed -----	9-12
Learning Disabilities -----	9-12
Speech/Language Pathology -----	9-12
Hearing Impaired -----	9-12
Basic Education -----	9-12
Transition Learning Services -----	12+
Vocational Special Needs/Career & Tech Resource Ed -----	9-12

THE LEARNING CENTER (LC) -----Elective 9-12-----1 credit

The learning resource center serves identified students with different learning needs who are on an IEP, 504 plan, or special referral. Students receive elective credit with an S/U grading scale. It utilizes the student's curriculum to teach different learning strategies. The objectives of the learning resource center are to support students' class work, improve study skills, encourage social growth, remediate areas of academic weakness, develop areas of academic strengths, correlate regular curriculum goals with IEP goals, facilitate communication with teachers and parents, and encourage students to reach their highest potential in and out of school as they transition to post-secondary life.

BASIC ENGLISH -----Required 9 – 12-----1 credit

This is a year-long course that uses world literature as a foundation for the study of language arts. The student's communication skills are improved through units of study that stress reading, writing, and speaking. Students receive instruction in writing, grammar, speech vocabulary and other related areas. Other units of study are book reports, research paper, and poetry. The computer lab is utilized extensively for many of the fun, yet challenging projects in this course.

BASIC MATH -----Required 9 -11-----1 credit

This course is designed to help the student develop the math skills needed to succeed in today's world. Topics covered are math reasoning, math computation, fractions, decimals, percent's, measurements, and other basics of mathematics. It also covers topics including personal finance, checking and savings accounts, insurance, credit cards, budgeting, wages, and other skills required to function as an independent adult.

BASIC PHYSICAL SCIENCE 9 -----Required 9-----1 credit

Physical Science is the study of basic Chemistry and Physics. The course of study begins with the study of atomic structure, periodic table, chemical reactions, solutions, acids, bases, and salts; followed by the study of forces, motion, energy, waves, optics of lenses and mirrors, sound, and electricity. The course introduces the use of proper lab techniques and safety. The course will include about 15 different lab experiments. Emphasis is placed on building a strong background in science vocabulary and lab procedures.

BASIC BIOLOGY 10 -----Required 10-----1 credit

Biology is the study of Life. The course begins with a study of cell tissues, organisms, and the origin of life, populations, and ecosystems. Lab assignments vary from completing projects such as: leaf, grass collection, simulated zoo habitat, virtual pig, and frog dissection.

BASIC ENVIRONMENTAL SCIENCE -----Required 11-----1 credit

Environmental Science is a study of natural systems, environmental issues, risks associated with these problems and alternative solutions. Students will study science as a process, energy in ecosystems, earth systems, human impacts, and earth's resources.

BASIC CIVICS 9-----Required 9-----1/2 credit

This course provides the basic understanding of the system of government of the United States. It provides an overview of how federal, state, and local governments work, the political process, the American economy and what it means to be an active citizen of the United States.

BASIC NORTH DAKOTA STUDIES 9 -----Required 9-----1/2 credit

This course studies the culture, geography, politics, and economics of North Dakota. Oral tradition, letters, documents, art, music, literature are among the many topics stressed in this class.

BASIC WORLD HISTORY 10 -----Required 10-----1 credit

The study of world history shows the connections of the rise and fall of many nations. It stresses the ideas of the great thinkers, the incredible richness of many cultures, timelines of important events and the areas in which these important people lived.

BASIC UNITED STATES HISTORY 11-----Required 11-----1 credit

This course will give the student a better understating of the history of the United States. They will learn how the country began, how people contributed to its growth and development, and how the United States became a powerful leader. Time period covered is the Civil War to the present.

BASIC ECONOMICS 12 -----Required 12-----1/2 credit

The science of economics deals with making choices about using resources and spending money. This course's major focus is the study of how the goods and services a society wants are produced, how they are distributed among people and helping people make better decisions when consuming.

BASIC GOVERNMENT 12 -----Required 12-----1/2 credit

This course focuses on the study of how power, politics, and government work in America. Special emphasis will be given to the need for citizen involvement, current events as they relate to government and democracy.

THE TRANSITION LEARNING CENTER (TLC) ---Elective 12+-----N/A

The Transition Program provides a post-secondary educational choice for students with disabilities who choose to continue working on transition skills through their Individual Education Plan (IEP). Program participation considers individual student needs, preferences, and interests. Students need to have completed all requirements for graduation before coming to the Transition House.

VOCATIONAL SPECIAL NEEDS/CAREER & TECH RESOURCES ED

VOCATIONAL WORK EXPERIENCE-----Elective 9 – 12-----1 credit

This course provides students with the opportunity to learn about and practice work skills. This course will cover work skills needed to find, secure, and keep a job, and look at various training options for post-secondary employment. There is a hands-on component to this class to put the skills discussed in class into practice.

BASIC PERSONAL FINANCE-----Required 10 – 12-----1/2 credit

Prerequisite: Word Processing or Basic Computer Literacy

This course helps students get ready for the "Real World". The class will provide a foundation of personal finance skills to help them become responsible citizens. Students will learn how to manage money, write checks, pay taxes, and apply for loans. Students will learn of the temptations they may face as they manage their money.

CAREER AND TECHNOLOGY CENTER

CTC Courses require a two-hour block of time unless otherwise indicated.

**WORK-BASED LEARNING (CO-OP) ----- Elective 10-12 ----- 150 hrs = 1 credit
75 hrs = ½ credit**

This course allows students to use knowledge gained in the classroom in real world settings. Students will develop good work habits, improve communication skills, and increase knowledge and skill for a successful career. Students will be working with area businesses and will need to provide their own transportation. Students must have enrolled in at least one course relating to the cooperative experience they are participating. Participating students must have completed a minimum of 1 credit in that program of study prior to a CO-OP placement. Students may earn ½ or 1 credit dependent on hours of WBL.

Coop courses are only available for juniors and seniors as their 6th or 7th credit.

Coop courses are only available for sophomores as their 7th credit.

INTRO TO AGRICULTURE-----Elective Grade 9-----1 credit

This applied course is designed to introduce students to agriculture, its applications, and leadership development as part of the Agriculture Education program. Individual units will familiarize the student with basic mechanical theory and skills placed on safety and proper use of tools and equipment; principles of evaluation and selection of core foundation of emphasis will be beef, swine, sheep, horse, and dairy animals; soil and plant relationships that affect the production of food and fiber. Topics may include soils, irrigation, crop and weed identification, range management, horticulture, nursery, and land judging, plants, diseases, insects, and chemicals.

FOUNDATIONS OF AGRICULTURE----- Elective Grade 10 ----- 1 credit

This applied course is designed to enhance student's perception of agriculture, its applications, and leadership development foundation of the Agriculture Education program. Individual units will familiarize the student with basic mechanical theory emphasis will be placed on safety and proper use of tools and equipment; principles of evaluation and se as the core and skills lection of beef, swine, sheep, horse, and dairy animals; soil and plant relationships that affect the production of food and fiber. Topics may include soils, irrigation, land judging, plants, crop and weed identification, range management, horticulture, land nursery, diseases, insects, and chemicals.

AGRISCIENCE Technology 1 (offered even years) Elective 11-12 ----- 1 credit

AgriScience integrates biological and technological concepts with the basic principles of agriculture. This course encourages the student to realize the importance of agriculture in the sciences. Topics of learning include biotechnology, career options in AgriScience, leadership development and the FFA, natural resource management, aquaculture, soils and hydroponics management, integrated pest management, and plant physiology and reproduction. Units in welding/carpentry are included. FFA participation is strongly encouraged.

AGRISCIENCE Technology 2 (offered odd years) Elective 11-12----- 1 credit

AgriScience integrates biological and technological concepts with the basic principles of agriculture and encourages the student to realize the importance of agriculture in the sciences. Topics of learning include, but are not limited to crop science, vegetable production, specialty crop production, turf grass use and maintenance, trees, animal anatomy, animal nutrition, animal health, genetics, breeding and reproduction, small animal care, horse management, food science, and agricultural business. Units in welding and carpentry are included. FFA participation is encouraged.

SMALL ANIMAL CARE ----- Elective 9-12 ----- 1/2 credit

This course is designed to provide students with the skills and concepts involved in the care and management of companion animals including dogs, cats, rabbits, birds, fish, and reptiles. Students will learn basic information on breed characteristics, nutritional requirements, health requirements including common species diseases, grooming, handling, training, housing needs, and the retail pet business. The student will be studying animal/human relationships and how animals play a very large role in our lives today. Career and hobby opportunities in small animals are also explored. The current pet situation in our society will be discussed. Students will be encouraged to develop their definition of animal welfare and animal rights.

VETERINARY SCIENCE -----Elective 11-12 ----- 1/2 credit

This course is designed to introduce students to the exciting field of veterinary science as it relates to the animal owner/veterinary assistant. This course will cover many facets of veterinary science that deal with the health, behavior, and well-being of animals including animal anatomy, physiology, nutrition, diseases, and common surgical procedures. The student will learn technical skills and knowledge necessary in caring for animals.

AGRICULTURAL PROCESSING -----Elective 10-12 ----- 1/2 credit

This course is designed to introduce students to the processing of agricultural products. The course will include the processing of food, fiber, and material product processing for the global economy will be emphasized. Personal communication skills, human relation skills, leadership development skills, and supervised agricultural e ion skills, experiences will be emphasized.

SUPERVISED AG EXP PROGRAM/SS -----Elective 10-12-----1/4 credit

This course provides credit for FFA Supervised Agricultural Experience Programs (SAEs) conducted by FFA members. Assessment is in the form of proficiency awards and degrees obtained. The instructor acts as an advisor assisting the student to develop and maintain accurate records and inventory in his/her entrepreneurship/placement SAE.

BOTANY/HORTICULTURE -----Elective 10-12-----1/2 credit

This course introduces students to the horticultural industry by providing hands-on-lab activities in a greenhouse. Students will produce greenhouse/nursery plants, maintain plant growth, and examine the importance of soils, plant structure and anatomy, plant reproduction and entomology. The course is designed to reinforce and extend student understanding of science by associating basic scientific concepts to the field of horticulture.

AGRICULTURE WELDING AND FABRICATION-----Elective 10-12-----1/2-1 credit

This course provides students in agriculture an opportunity to reinforce and extend their understanding of applied mechanical applications. Students will be exposed to mechanical, electrical, and thermal power that are associated with the field of agricultural welding. Applied activities develop an understanding and skill development in metal joining and fabrication processes. Instruction will prepare students to select, operate, repair, fabricate and maintain a variety of agricultural machinery and equipment. Processes covered may include Oxy fuel Cutting/Heating/Welding, Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux-cored Arc Welding (FCAW), Gas Tungsten Arc Welding (GTAW), Air-carbon Arc Cutting, Plasma Arc Cutting, Safety and Metal Fabrication. In addition, record keeping, communication skills, employability and human relation skills will be covered. Leadership development and Supervised Agricultural Experiences (SAE's) are also integral to this course. ½ or 1 Max credit = 1as a machine operator in the work field. Cooperative Education Experience available to qualified students.

AUTO COLLISION TECHNOLOGY 1 -----Elective 11-12-----2 credits

Students will work on repairing damaged automobiles and body parts of automotive vehicles. They will learn to: fix dents, weld and work with panel bonding and plastic materials, use arc plasma cutter, cutting torch and mig wire feed welder. They will file, grind and sand repaired surfaces by using power and hand tools. They will also refinish repaired surfaces by applying primer-surface coat and sanding. Students may find work as an auto collision tech or assistant.

AUTO COLLISION TECHNOLOGY 2-----Elective 12-----2 credits

Prerequisite: Auto Collision Technology 1

Students will learn to do a complete refinish paint job, identify, and apply different types of primers, single-stage topcoats and basecoat/clear coat finishes. They will identify and remedy different paint problems. Students will learn the installation of different automotive hardware, glass, and vinyl decals. Students will study automotive estimating and shop layout. Students are prepared to be an auto collision tech, or assistant. Cooperative Education Experience is available to qualified students. This program is ASE certified in paint and refinishing.

AUTOMOTIVE TECHNOLOGY 1 ----- Elective 11-12-----2 credits

This course is one half of a two-part, two-year program designed to prepare a student for entry level employment in the Automotive field or advanced placement in a Technical College Automotive Program. This part of the program is focused on Brake Systems, Transmissions and Drive Trains, Suspension Systems, and Steering Systems and is aligned with those ASE and NDCTE Standards.

AUTOMOTIVE TECHNOLOGY 2-----Elective 11-12----- 2 credits

Prerequisite: Automotive Maintenance & Light Repair 1

This course is one half of a two-part, two-year program designed to prepare a student for entry level employment in the Automotive field or advanced placement in a Technical College Automotive Program. This part of the program is focused on Engine Repair, Engine Performance, Electrical and Electronic Systems, and HVAC Systems and is aligned with those ASE and NDCTE Standards.

FOUNDATIONS OF AUTOMOTIVE REPAIR-----Elective 9-12-----1/2 credit

This course is designed to prepare students to understand the features, care, cleaning, and basic maintenance of motor vehicles. It instructs students in shop safety procedures, as well as proper care and use of hand tools and equipment found in a typical shop. It also introduces the student to career opportunities in the automotive field.

AVIATION TECHNOLOGY I (Offered Odd Years) ----- Elective 10-12-----1 credit

Students are provided with an understanding of the science of flight and include the history and possible career paths within the aviation industry. Aviation covers physics, the relationships of weight and balance, principles of navigation and flight control, ground and airport operations and services, and Federal Aviation Administration regulations.

AVIATION TECHNOLOGY II (Offered Odd Years) -----Elective 10-12-----1 credit

Prerequisite: Aviation Technology I

Students will be prepared to pass the Federal Aviation Administration (FAA) private pilot verbal exam and will gain more advanced training and simulation experience.

UNMANNED AIRCRAFT SYSTEMS (Drones 1 & 2) (Even Years) -----Elective 10-12-----1 or 2 credits

The Unmanned Aircraft Systems course will teach students a basic understanding of recreational and commercial unmanned aircraft operations. They will identify the responsibility and authority of the remote PIC, discuss rules of UAS operation, understand the significance of airspace Classes B, C, D, E, and G as they pertain to UAS. Identify special-use airspace where UAS usage may be prohibited. Understand weather and how it affects flight of UAS. Understand general loading and performance data, airport operations. When students complete this course, they will have a general understanding and knowledge of the operation and uses of UAS as they pertain to the world of Aviation.

CONSTRUCTION -----Elective 9-10 -----1/2 credit

This course is designed for the student who would like to gain hands-on experience in the construction technology industry. Students will be instructed in basic carpentry skills. This course covers safety, tools, basic plumbing, electrical, and entry level construction skills. This is a valuable life skill course for any student who plans on using carpentry tools to repair, remodel, or construct a building, cabinets, or furniture.

CONSTRUCTION TECHNOLOGY 2 (CARPENTRY) -----Elective 11-12-----2 credits

Carpentry skills geared to the construction and finishing of buildings and structures, as well as precision carpentry are taught. Students will also be instructed in basic plumbing and wiring of house electrical systems. Entry level occupations include construction worker, house repairman, apprentice mason and roofer.

CONSTRUCTION TECHNOLOGY 3 -----Elective 12-----2 credits

Prerequisite: Construction Technology 1

Building construction, planning, estimating costs, and advance carpentry skills, including some management training are taught. Entry level occupations include carpenter apprentice, cabinet maker, apprentice electrician, drywall worker, and painter.

CHILD DEVELOPMENT -----Elective 9-10-----1/2 credit

Child Development is the study of how children grow and develop. Students will investigate how children grow – physically, mentally, socially, emotionally, and morally. Students will discover how to help children be healthy, secure, and happy. The child as a member of a family will be a topic, with emphasis placed on the importance of both mothering and fathering roles.

Current social issues affecting children will be addressed. These may include the impact of family crises on children, child abuse and neglect, children with special needs, education, and non-family care. Consumer education will be included in topics such as the costs of bearing and raising a child.

CARE AND DEVELOPMENT OF THE YOUNG CHILD-----Elective 10-12-----2 credits

This course is open to males and females in the 10th, 11th, and 12th grades. It provides classroom instruction relating to the physical, mental, and social growth and development of the preschool child. A unit on parenting and infant care is also included. Students learn to operate and manage a play school at the Career and Technology Center and get additional experience by assisting in elementary classrooms, local day cares and nursery schools. This is a valuable course for students interested in early childhood education, elementary education, or those planning to be a parent, nanny, or operate or seek employment in a day care center.

HEALTH SCIENCE CAREERS -----Elective 11-12-----2 credits

Prerequisite: Introduction to Health Science Careers (may be waved per approval by both Instructor & JVCTC director, depending on class size)

This program is developed to assist students considering a career in health sciences the opportunity to develop a broader knowledge and insight into a choice which best suits their capabilities and interests. Health Science Careers uses classroom-based instruction, hands-on experience, speakers from the community and tours to instruct the student. A primary component of this course is it offers in-depth career studies. Semester 2, students will expand their skills and knowledge in their chosen areas of interest during clinical rotations in the community. Emphasis on academics, professional development, leadership, and organizational skills are integrated throughout the curriculum.

INTRODUCTION TO HEALTH SCIENCE CAREERS-----Elective 10-12 -----1/2 or 1 credit

This program is designed to introduce students to today's health science career community. Students will receive instruction on how the health care system works, current issues and trends, careers in health science, and units of study on professional ethics, confidentiality, and patient rights. Students will participate in a project-based curriculum using guest speakers and hands-on activities throughout the year. All students can obtain CPR & First Aid by May of the school year. This program is a one-year program providing students an opportunity to explore a variety of health careers.

NURSING ASSISTANT -----Elective 10-12-----1/2 credit

This training program offers classroom instruction and clinical practice to those preparing for employment as a *certified nursing assistant* in a skilled nursing facility, acute care or home health care setting. This program includes supervised practical training and clinical practice as required by the North Dakota Board of Nursing. A certificate is issued upon completion of the class. Students also can take the state CNA board exam to acquire state certification.

MEDICAL TERMINOLOGY -----Elective 11-12-----1/2 credit

Medical abbreviations and terminology are used in all health science occupations. To communicate effectively, health science workers must be familiar with what is commonly used. Emphasis in this class is on building a working medical vocabulary based on body systems, while learning terminology as it relates to pathology, diagnostic, surgical, clinical & laboratory procedures. This course may be taken for dual credit with the student earning 3 college credits through Lake Region Community College – Devils Lake. The student must be a junior or senior and have a 3.0 GPA to be eligible for college credits.

PRECISION MACHINING TECH 1 -----Elective 11-12-----2 credits

Precision Machining will provide the basic metal knowledge and skills required for a machine operator in the metal working and advanced manufacturing industry. Training is provided in: metal cutting lathes and drill presses, the use of precision lay-out tools, blueprint reading, and shop math.

PRECISION MACHINING TECH 2 -----Elective 12-----2 credits

Prerequisite: Machine Tool Tech 1

Precision Machining 2 is a continuation of developing more advanced machining knowledge and skills for industry. This class teaches advanced training in print reading with the understanding of the Geometric Dimension and Tolerance concept. Students must complete several advanced mill projects. Upon completion of the course students will have a very good understanding of safety, precision instruments, math, blueprint reading, and machine operation. This class will qualify a successful student.

ONLINE COURSES AT CTC

These courses are for students pursuing a medical pathway.
The CTC Administrator has final approval.

COMPOSITION 110 / Online Dual Credit-----Elective 12-----1/2 credit

This course is only open to Seniors who have obtained a minimum score of 18 on the English portion of the ACT or a combination of 35 or higher in the English and reading portions. Students may earn

The online Composition 110 dual credit class prepares students for the demands of college-level research, and argumentative writing. You will learn research analysis, argument strategies, research techniques, and documentation. You will develop skills in writing, analytical reading, and critical analysis. This class will help you evolve into a more effective participant in college level courses and enhance your research skills when working with traditional and electronic sources.

Participants will hone their communications skills through writing while analyzing and responding to critical readings, annotating a text to identify main points, and drawing key inferences. Students will identify and locate authoritative sources, research databases, and the web, using authoritative sources to support an argument. Students will learn both MLA and APA documentation, including the creation of the Works Cited Page.

This dual credit opportunity awards students who earn a passing grade 3 credits at any institution which is an affiliate of North Dakota State college or university system. Private university schools of North Dakota may or may not accept these course credits. The cost of this class is on a per credit basis.

COMPOSITION 120 / Online Dual Credit-----Elective 12-----1/2 credit

Prerequisite English 110

This course is only open to Seniors who have obtained a minimum score of 18 on the English portion of the ACT or a combination of 35 or higher in the English and reading portions. Students must complete and pass the pre-requisite English 110 to enroll.

English 120 introduces students to critical thinking and the fundamentals of academic writing. Through the writing process, students refine topics; develop and support ideas; investigate, evaluate, and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences, and purposes. Writing activities will include exposition and argumentation with at least one researched essay. English120 will prepare students for all other expected college writing and for writing in the workplace through understanding the writing process and creation of effective texts.

Through the writing process, students will be able to develop a topic, draft an essay, make revisions, and edit a final copy. Students will read, summarize, and respond to college level texts; create unified, coherent, and well-developed texts using rhetorical elements; utilize and evaluate outside sources of information; and document sources of information.

This dual credit opportunity awards students who earn a passing grade 3 credits at any institution which is an affiliate of North Dakota State college or university system. Private university schools of North Dakota may or may not accept these course credits. The cost of this class is on a per credit basis.

PSYCHOLOGY 111/ Online DC-----Elective 11-12-----1/2 credit

Provides the student with a general introduction to fundamental topics and areas in the field of psychology. Students will learn about the history of psychology, various scientific methods for research, neurological underpinnings of behavior and mental processes, and diverse subjects relevant to the field, including sensation and perception, learning, memory, and social psychology.

Psychology can help you understand yourself and others, and is relevant to many fields including health, education, sports, business, and law. As such, Psychology is important to individuals and to society. During this course we will overview the history of psychology, research methods, behavioral genetics, perception, variations of consciousness, learning, memory, language, thinking, intelligence, motivation, emotion, development, aging, personality, social behavior, health psychology, mental disorders, and psychological treatments. At the end of the course, you should know key concepts and findings about these topics, as well as be acquainted with the research methods of psychology and be able to evaluate purported facts about psychology.

This dual credit opportunity awards students who earn a passing grade 3 credits at any institution which is an affiliate of North Dakota State college or university system. Private university schools of North Dakota may or may not accept these course credits. The cost of this class is on a per credit basis.

PSYCHOLOGY 250/ Online DC-----Elective 11-12----- 1/2 credit
Prerequisite Psychology 111

This course is an introduction to the study of personality. The course examines theoretical explanations for understanding personality development and explores each theory. The course also investigates how personality is assessed. The focus is on approaches that psychology has developed for understanding personality and on applications for organizational processes.

This college course is a survey of the psychology of human life span development including intellectual, social, and emotional aspects of the normal individual and emphasizing human development. Various developmental theories will explain the physical, cognitive, and social changes that occur during the human lifespan. The course enhances the knowledge and understanding of people of all ages and the developmental tasks each person experiences.

This dual credit opportunity awards students who earn a passing grade 3 credits at any institution which is an affiliate of North Dakota State college or university system. Private university schools of North Dakota may or may not accept these course credits. The cost of this class is on a per credit basis.

COMPUTER HARDWARE AND OPERATING SYSTEMS I & II DC----- Elective 10-12 -----1/2 / 1 credit

An introductory level course that focuses on essential hardware and operating system competencies for an entry-level PC service technician. Students will demonstrate basic knowledge of installing, configuring, upgrading, troubleshooting, and repairing microcomputer systems and operating systems. Work-based strategies appropriate for this course. Computer hardware related careers are explored, and students are provided with opportunities to increase their communication, teamwork, and critical thinking skills. Students completing the full year program will be prepared for computer industry certification, such as Comp Tia's A+ certification exam or IC3 certification. (Possible curriculum: Explor Net, HP/Cisco Sponsored IT Essentials Part 1, Aries, Computer Prep, Element K, etc.)

ESSENTIALS OF NETWORKING OPERATING SYSTEMS I & II DC --- Elective 11-12 -----1/2 / 1 credit

Essentials of Network Operating Systems courses provide a study of multi-user, multi-tasking network operating systems. In these courses students learn the characteristics of Microsoft Windows and Linux based operating systems and explore a variety of topics including installation procedures, security issues, back-up procedures, and remote access, TCP/IP concepts, DNS, digital certificates, and OP security extensions.