



**Woodbury Central**  
**High School**  
**Course Descriptions**  
**2018-19**

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## A Note from the High School Principal

Dear Woodbury Central High School Students,

The information in this booklet is your source for the decisions you must make while in high school. Your choices will help you meet the graduation requirements and educational goals you have set for yourself. Carefully consider each of your classes as you plan each year at WC.

What courses will you take to help meet your educational goals for high school? As you consider this question, be sure to evaluate your academic strengths. Also, focus some of your thoughts towards your occupational goals. Are these goals in line with your strengths and interests?

Discuss your thoughts about this with your parents, teachers and counselor. They can help you understand how to prepare to meet your goals for your post high school years. As you and your parents read through the different components in this course description book, you will find yourself making appropriate choices for your needs at Woodbury Central High School.

Over the years, thousands of students have graduated from Woodbury Central High School. I challenge each of you to continue this proud tradition during your years here. WC provides for you an opportunity to excel in academics, the arts, in sports and in other activities.

Make the most of your high school experience by doing your best in class and getting involved in activities.

I wish you the best of luck with your studies and activities during your years at Woodbury Central.

**Go Wildcats!**

*Dan Bormann*

Dan Bormann, MS/HS Principal

# Woodbury Central Community School District Graduation Requirements

## 46 Credits Required

**English**.....4 years = 8 semesters = **8 credits**      **Math** .....3 years = 6 semesters = **6 credits**

**Science** .....3 years = 6 semesters = **6 credits**      **Social Studies** .....3 years = 6 semesters = **6 credits**

**Microsoft Office** .....1 year = 2 semesters = **2 credits**      **Physical Education** ...\*4 years (see below)

**ENGLISH - Required:** 2 semesters each of English I (Freshmen), English II (Sophomores) and English III (Juniors)  
2 semesters of English electives

**MATH - Required:** 6 semesters

**SCIENCE - Required:** 2 semesters of Earth Science (Freshmen) and 2 semesters of Biology (Sophomores)  
2 semesters of Science electives

**SOCIAL STUDIES - Required:** 2 semesters of U.S. History (Freshmen), 2 semesters of Government (Juniors)  
1 semester of Social Problems (Seniors) and 1 semester Social Studies elective

**PHYSICAL EDUCATION - Required:** 2 semesters of **in-class** PE or weights and **EACH** semester, **EACH** year – either in a PE/Weight class **OR** exempt by filling out **Physical Activity Contract**

**MICROSOFT OFFICE – Required:** 2 semesters

## **Other Important Facts**

1. Students earn 1 credit per course per semester except band (.5), choir (.5) PE (.6), and some WIT courses.
2. All students must be enrolled in at least 6 academic courses. Exceptions:
  - Band + Choir in the same semester = 1 academic course and credit
  - WIT courses vary – please see their description (starting on page 20). The number of WC credits earned = the number of academic courses on that student's schedule. For example, 1 credit earned = 1 course, 1.5 credit earned = 1.5 courses of the 6 academic course requirement.
3. P.E./Weight Training: the State of Iowa requires that high school students get 120 minutes of physical activity per week.
  - **All** students must take 2 semesters of **in-class** PE or Weight Training, during the school day or Early Bird. We suggest the **2 semesters** of in-class PE/Weights be completed **freshman year**.
  - Students participating in sports and/or other activities such as weight lifting, marching band, cheerleading, drill team, etc.... can be exempted from PE if the activities provide 120 minutes of exercise per week.
  - To be exempt, for whatever reason, students must complete and hand in to the Counselor a parent-signed **PHYSICAL ACTIVITY CONTRACT**. This form is available in the **Counselor's office**.

### From your Counselor, Mrs. Walker:

Selecting courses for the school year is an important process. Course selections should be based upon future goals and plans after high school. A wide range of courses are available to meet the needs of all students. Please choose a wide variety of classes in order to open your eyes to new ideas. Each time students select a high school subject, he/she opens the door to a career opportunity.

In 8<sup>th</sup> grade, you completed a 4-year plan. Each year, that plan is adjusted according to you and how you've changed. Your future aspirations may change several times before you complete high school. Please use the time wisely when I meet with you for career lessons with **MAP**. There is so much information available to you to help you choose your next path after Woodbury Central. This information can help you:

- Discover your strengths and interests.
- Match interests, values and skills with education and employment opportunities.
- Explore programs and majors.
- Research financial aid and scholarship options.
- Build a resume.
- Learn about job outlook and pay.

What are your plans? Please share your thoughts, dreams and plans with me so I can help guide you through your high school choices.

- Military – please sign up to take the ASVAB in the fall of your junior year – you can retake as a senior, if needed
- Work, internship – support your resume with job experience and references
- Community College – go on college visits as soon as possible
- 4-year College – take the ACT spring of your Algebra 2 course and go on college visits

### SUGGESTED COLLEGE PREPARATORY CURRICULUM:

English: 8 credits

Math: 6 – 8 credits

Science : 6 – 8 credits

Social Studies: 6 – 8 credits

Foreign Language: 4 – 8 credits of the same language

This aligns with the requirements of our **State Colleges in Iowa**; The University of Northern Iowa, Iowa State University and The University of Iowa. Acceptance at these 3 colleges is based on the **Regent Admission Index (RAI)**.

**RAI Score = (2 x ACT Comp) + (percentile HS rank) + (20 x HS rank) + (20 x HS GPA) + (5 x number of years of HS courses completed in the core subject areas).** A score of 245 with the required high school courses completed qualifies a student for automatic admission to ISU, UNI and the College of Liberal Arts and Sciences at the University of Iowa. See pg 7 for more information.

Some colleges require fine arts and/or technology credits or have different requirements for certain programs (engineering, nursing.....). Check with your college choice for specific admission requirements.

**DIVISION I ACADEMIC REQUIREMENTS:****www.eligibilitycenter.org**

English: 4 years      Math: 3 years (Algebra or higher)      Science: 2 years (including one lab science)

Social Science: 2 years +Additional: 1 year of English, Math, or Science

Additional: 4 years of English, Math, Science, Social Science, Foreign Language or Philosophy

Full Qualifier – min GPA of 2.3 in core courses

Academic Redshirt – min GPA of 2.0 in core courses

**DIVISION II ACADEMIC REQUIREMENTS:****www.eligibilitycenter.org**

English: 3 years      Math: 2 years (Algebra or higher)      Science: 2 years (including one lab science)

Social Science: 2 years +Additional: 3 of years of English, Math or Science

Additional: 4 years of English, Math, Science, Social Science, Foreign language or Philosophy

Minimum GPA of 2.0 in core courses

**ACT test dates Spring – Summer 2018****Stop in the Counselor's office for a booklet with a practice test. Fall****2018/Spring 2019 test dates will be available online or in the Counselor's office.****April 14, 2018** – registration deadline March 9, **June 9, 2018** – registration May 4, 2018,**July 14, 2018** – registration deadline June 15, 2018Register at **ACTstudent.org****Example Class Schedules**

<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>
English I – <b>required</b> 2 semesters/2 credits	English II – <b>required</b> 2 semesters/2 credits
Math – <b>required</b> 2 semesters/2 credits	Math – <b>required</b> 2 semesters/2 credits
US History – <b>required</b> 2 semesters/2 credits	<b>**Social Studies Elective – required</b> 1 semester/1 credit
Earth Science – <b>required</b> 2 semesters/2 credits	Biology – <b>required</b> 2 semesters
*PE or Weights – <b>required</b> 2 semesters/1.2 credits	Spanish II – 2 semesters/2 credits
Spanish I – 2 semesters/2 credits	Electives – 5 semesters/5 credits
Electives – 2 semesters/2 credits	Study Hall – 2 semesters
Study Hall – 2 semesters	<b>**1 Social Studies elective required in HS</b>
<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
English III – <b>required</b> 2 semesters/2 credits	English Electives – <b>required</b> 2/semesters/2 credits
Math – <b>required</b> 2 semesters/2 credits	<b>^^Math</b> – 2 semesters/2 credits
Government – <b>required</b> 2 semesters/2 credits	Social Problems – <b>required</b> 1 semester/1 credit
Science Electives – <b>required</b> 2 semesters/2 credits	<b>^^Science Electives</b> – 2 semesters/2 credits
<b>^Spanish III</b> – 2 semesters/2 credits	Electives – 6 semesters/6 credits
Electives – 4 semesters/4 credits	School To Work – 2 semesters/2 credits
Study Hall – 2 semesters	Senior privilege
<b>^2 yrs Spanish suggested for all – 4 yrs if college bound</b>	<b>^^4 years suggested if 4-year college bound</b>

## High School Course Requirements Iowa Board of Regents Admission Index

Subject Area	The University of Northern Iowa	University of Iowa	Iowa State University
<b>English / Language Arts</b>	<b>4 years</b> , including one year of composition; also may include one year of speech, communication, or journalism.	<b>4 years</b> with an emphasis on the analysis and interpretation of literature, composition, and speech.	<b>4 years</b> emphasizing writing, speaking, reading, as well as an understanding and appreciation of literature
<b>Math</b>	<b>3 years</b> , including the equivalent of algebra, geometry and advance algebra.	<b>3 years</b> , including two years of algebra and one year of geometry for admission to the College of Liberal Arts and Sciences.  <b>4 years</b> , including two years of algebra, one year of geometry and one year of higher mathematics (trigonometry, analysis or calculus), for admission to the College of Engineering.	<b>3 years</b> , including one year each of algebra, geometry, and advanced algebra.
<b>Natural Science</b>	<b>3 years</b> , including courses in general science, biology, chemistry, earth science, or physics; laboratory experience highly recommended	<b>3 years</b> including courses in biology, chemistry, and physics for admission to the College of Liberal Arts and Sciences. <b>3 years</b> , including at least one year of chemistry and one year of physics, for admission to the College of Engineering. <b>Nursing</b> - 3 years including one year each of biology, chemistry and physics.	<b>3 years</b> , including one year each from any two of the following: biology, chemistry, and physics.
<b>Social Science</b>	<b>3 years</b> , including courses in anthropology, economics, geography, government, history, psychology, or sociology.	<b>3 years</b> with U.S. history and world history recommended for admission to the College of Liberal Arts and Sciences.  <b>2 years</b> with U.S. history and world history recommended for admission to the College of Engineering.	<b>2 years</b> for admission to the Colleges of Agriculture, Business, Design, Human Sciences and Engineering.  <b>3 years</b> for admission to the College of Liberal Arts and Sciences.
<b>Foreign Language</b>	Foreign Language courses are not required for admission. However, two years of a foreign language in high school with a C- or above in the last term will meet the university graduation requirement.	<b>2 years</b> of a single foreign language are required for admission. For many degrees, the fourth year of proficiency is required for graduation.. <b>Nursing</b> —3 years in a single language or two years each in two different languages.	<b>2 years</b> of a single foreign language for admission to the College of Liberal Arts and Sciences and the College of Engineering. Foreign language courses aren't required for admission to the Colleges of Agriculture, Business, Design or Human Sciences.
<b>Other Courses</b>	<b>2 years</b> of additional courses from the required subject areas, foreign languages, or fine arts.	Specific elective courses are not required for admission.	Specific elective courses are not required for admission to Iowa State University.

[www.iowaregents.edu/institutions/higher-education-links/regent-admission-index/](http://www.iowaregents.edu/institutions/higher-education-links/regent-admission-index/)

All courses listed in this course guide may not be offered during any given year. If the course does not have enough students interested, it may be omitted from the schedule.

## ENGLISH

**ENGLISH I (Required 9<sup>th</sup>)** FULL YEAR 2 Credits

Students will study fiction, nonfiction, grammar, drama, poetry, and novels. They will learn about and apply several comprehension strategies to each selection. In addition, they will focus on vocabulary on a weekly basis. Students learn the different processes of essay writing and applicable presentation skills. Students are required to compile a comprehensive portfolio throughout the course and present this portfolio in a formal manner. This course utilizes and emphasizes cooperative learning and the discussion format.

**ENGLISH II (Required 10<sup>th</sup>)** FULL YEAR 2 Credits

Students study a wide range of essays, poetry and dramas; lessons are organized according to literary elements such as plot, character, setting, point of view, irony and theme. A major research project is a formal proof paper which conforms to the MLA format. Step-by-step, students write and rewrite text, and organize note cards, the outline and Works Cited for final papers. They present their research orally. Students demonstrate their critical and creative thinking skills through personal writings, group discussions, quizzes, exams and essays. They write and rewrite compositions of analysis, interpretation and evaluation. Students also study short pieces of literature such as Harper Lee's *To Kill a Mockingbird* and John Steinbeck's *Of Mice and Men* and *The Pearl*.

**ENGLISH III (Required 11<sup>th</sup>)** FULL YEAR 2 Credits

Students analyze American literature from the Native American Period through Modernism. A variety of genres are covered throughout the course. In addition, students study vocabulary on a weekly basis and review grammar through the writing process. Students write an extended literary synopsis over a contemporary novel. Projects and presentations play a large role in grading. Students are required to compile a comprehensive portfolio throughout the course and present this portfolio in a formal manner.

## English (Electives - 2 elective credits REQUIRED)

**READING SURVEY** (Placement by Iowa Assessment Reading Scores) 1 SEMESTER 1 Credit

This course focuses on increasing comprehension for students scoring below reading proficiency. Students will complete an extensive amount of independent reading at their own recreational reading level.

**DRAMATIC LITERATURE** (12<sup>th</sup>) **Class size limit: 24** 1 SEMESTER 1 Credit

This course explores elements of dramatic literature and their implications for the audience. Character, language, plot and theme are studied in the light of the dynamic play structure. Students will discuss, enact, analyze, debate, and creatively respond to the play texts to support their arguments. The students will look at the play from the viewpoints of actor, director and designer. Through a hands-on analysis, students will come to appreciate theater and its literature.

**INDEPENDENT LITERATURE** (11<sup>TH</sup> - 12<sup>TH</sup>) 1 OR 2 SEMESTERS 1 Credit each semester

This course enables students to explore topics of interest related to all types of literature. The students will choose their own materials/genres and will respond to each selection they choose.



<b>PUBLICATIONS</b> (10 <sup>TH</sup> - 12 <sup>th</sup> )	<b>Class size limit: 10</b>	1 OR 2 SEMESTERS	1 Credit each semester
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Students analyze the fundamentals of writing methods, and learn the journalism standards and code of ethics. Students write a variety of leads, editorials, features and sports articles. They submit at least one story weekly with photos to the local newspaper, and build an extensive journalism notebook. They outline their stories, attribute direct and indirect quotes, write in the pyramid style, and edit and compile programs for school events.

<b>PUBLIC SPEAKING</b> (11 <sup>TH</sup> - 12 <sup>TH</sup> )	<b>Class size limit: 20</b>	1 SEMESTER	1 Credit
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Prerequisite: advising and proficiency on Iowa Assessments

**\*\*This is a 3-credit WIT College Course – SPC 112**

This course combines theory of speech communication with public speech performance skills. Emphasis is on speech delivery, preparation, organization, support, and audience analysis. Practice of skills is through presentation and exercise.

<b>WORKPLACE COMMUNICATIONS</b> (11 <sup>TH</sup> – 12 <sup>TH</sup> )	1 semester	1 Credit
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Prerequisite: advising and proficiency on Iowa Assessments

**\*\*This is a 3-credit WIT College Course – COM 723**

This course is a study of the principles and processes of written and oral communication as applied to occupational and personal use through practical reading, writing and speaking assignments. It emphasizes technical report writing, including preparation, organization, audience and the effective use of format, supplements and visuals.

**Western Iowa Tech online** elective course possibilities include Composition I, Composition II, Introduction to Literature and Children's Literature. Please see page 22 for more WIT online information.

## MATH (6 credits REQUIRED)

<b>PRE-ALGEBRA</b> (9 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: teacher recommendation

This course offers basic math review and then covers many Algebra 1 topics, but at a slower pace and with less depth. Problem solving and relating math to the real world are emphasized.

<b>ALGEBRA IA</b> (9 <sup>th</sup> - 11 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: teacher recommendation

This course is designed to teach the fundamental concepts of Algebra in depth over a two-year period. It will cover the same topics as ALGEBRA 1 semester 1, at a slower pace. It is intended to increase the opportunities for practice and the successful development of Algebra 1 skills.

<b>ALGEBRA IB</b> (9 <sup>th</sup> - 11 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: Algebra 1A

This course will cover the same topics as ALGEBRA 1 semester 2, at a slower pace. It is intended to increase the opportunities for practice and the successful development of Algebra 1 skills and some Geometry skills.

<b>ALGEBRA I</b> (8 <sup>th</sup> - 11 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: teacher recommendation

Algebra 1 is an intensive investigation of the basic introductory elements of algebra, including slope and rate of change, the solving and graphing of linear equations and inequalities, the operations and factoring of polynomial expressions, the simplification of radical expressions, the solving of radical and quadratic equations, and the algebraic representations of real world problems.

<b>GEOMETRY</b> (9 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: Successful completion of Algebra 1 **OR** Algebra 1A and 1B

Geometry is devoted to the comprehension and application of various theorems which involve triangle congruence and similarity, parallel lines, right triangles, and circles. After mastering proofs, students will use the presented theorems to solve real world applications, using area, surface area, volume formulas for plane and solid figures, and the basics of trigonometry.

<b>ALGEBRA II</b> (10 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: Successful completion of Algebra 1 **OR** Algebra 1A and Algebra 1B

Algebra 2 builds upon topics introduced in Algebra 1 and includes; formulas and graphs of linear, quadratic, exponential and square root functions, complex numbers, rational expressions, probability and statistics, and sequences and series. The course concludes with trigonometry and an introduction to graphing calculators.

<b>PRE-CALCULUS</b> (11 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	2 credits
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Prerequisite: Successful completion of Algebra 2 and Geometry

Pre-Calculus encompasses and extends topics and concepts of intermediate algebra and trigonometry. Its goals are to develop student proficiency with mathematical skills, to expand understanding of mathematical concepts, to improve logical thinking, and to prepare students to succeed in college. A Graphing calculator is recommended. (Pre-Calculus may be online, non-college credit, depending on the availability of a teacher.)

<b>CALCULUS</b> (12 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: Successful completion of Pre-Calculus. A graphing calculator is recommended

This course includes the study of limits, continuity, differentiation and integration with a strong emphasis on theory and applications.

<b>STATISTICS</b> (11 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: Successful completion of Algebra 2 and Geometry

Statistics introduces the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes; exploring data patterns, planning and conducting a data study, exploring random phenomena using probability and simulation, and using statistical inference to estimate population parameters and test hypothesis. (Statistics may be offered as an online class, depending on the availability of a teacher.)

**Western Iowa Tech online** elective course possibilities include Math for Liberal Arts, Intermediate Algebra, Applied Math and College Algebra. Please see page 22 for more WIT online information.



## SCIENCE

<b>EARTH SCIENCE</b> (Required 9 <sup>th</sup> )	FULL YEAR	2 Credits
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Earth Science gives students the opportunity to study a variety of topics about the earth such as latitude and longitude, weather, types of rock, the atmosphere, meteorology, plate tectonics, the stars, galaxies and the universe.

<b>BIOLOGY</b> (Required 10 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: Successful Completion of Earth Science

The basic principles of biology are introduced in this course, including cell structure and function, biochemistry, genetics, taxonomy, plant and animal structure/function and some of the systems of the human body. Labs include microscope work and a fetal pig dissection. With this exposure, the students will gain a basic understanding and appreciation of life and living things.

## Science (Electives - 2 elective credits REQUIRED)

<b>SCIENCE SURVEY</b> (11 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: Teacher recommendation

Science survey gives students the opportunity to study a variety of areas of science. Students study environmental sciences, weather and climate, and human body. To enhance the lessons, students will complete hands-on activities, which will connect science in the classroom to “real world” lessons.

<b>PHYSICAL SCIENCE</b> (10 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	2 Credits
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Students study the structure and properties of matter, as well as energy and many of its forms, uses and conservation. They use the scientific method, simple lab skills and mathematics to study problems related to physical science.

<b>ADVANCED BIOLOGY</b> (11 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: Successful completion of Biology

Advanced Biology students gain a basic understanding and working knowledge of the organization and function of several systems in the human body. Students use a college-level anatomy/physiology text. Labs are conducted throughout the course to facilitate student understanding.

<b>CHEMISTRY</b> (11 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: Successful completion of Earth Science

Chemistry gives students a solid base upon which to build their scientific knowledge. Students study the structure and behavior of atom and molecules as well as acids, bases and oxidation-reduction reactions. The theme of the course is that the properties of matter are a consequence of its structure.

<b>ADVANCED CHEMISTRY</b> (12 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: Grade of B or better in Chemistry

Topics covered in Advanced Chemistry are acids and bases, kinetic behavior of atoms, the quantum mechanical model, nuclear chemistry, and organic chemistry. College-type labs are used to prepare students for college chemistry.

<b>PHYSICS</b> (11 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	2 Credits
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Prerequisite: Successful completion of Algebra 2

Topics covered in physics are momentum, energy, electrostatic fields, quantum nature of light, electromagnetic radiation, sound and elementary particle physics. This course is geared to produce a genuine understanding of the physical laws fundamental to all sciences.

**Western Iowa Tech online** elective course possibilities include Nutrition, Essentials of Anatomy and Physiology, Anatomy and Physiology w/lab and Environmental Science. Please see page 22 for more WIT online information.

## SOCIAL STUDIES

**UNITED STATES HISTORY (Required 9<sup>th</sup>)** FULL YEAR 2 Credits

United States History is a study of the nation's past from Reconstruction to the early 1950's. It gives students an understanding of the democratic ideals that have helped form the American Government and way of life. The importance of individuals in America's growth is stressed, as well as the economic, political, and social issues.

**AMERICAN GOVERNMENT (Required 11<sup>th</sup>)** FULL YEAR 2 Credits

American Government includes the study of the history of our U.S. Government from the Second Continental Congress through the 27<sup>th</sup> Amendment. It covers the principles of our Constitution, as well as an understanding of Federalism, Civil Rights and Due Process of Law. Students also study the different roles of the three branches of government, as well as state and local governments.

**SOCIAL PROBLEMS (Required 12<sup>th</sup>)** 1 SEMESTER 1 Credit

Social Problems informs students of the wide variety of social problems facing our society today. Emphasis is placed on identifying and defining a social problem, carefully examining all the relevant information about the problem, and proposing solutions to resolve the problem.

### Social Studies (Electives - one elective credit REQUIRED)

**WORLD GEOGRAPHY (10<sup>th</sup> - 12<sup>th</sup>)** FULL YEAR 2 Credits

World Geography introduces students to various aspects of geography and to the relationship between man and his natural environment. This knowledge helps students understand why different cultures developed the way they did. Geography also helps students develop a name/place relationship of our world.

**WORLD HISTORY (10<sup>th</sup> - 12<sup>th</sup>)** FULL YEAR 2 Credits

World History introduces students to the origins and varieties of culture and human accomplishment throughout the ages. Semester one covers the times from early Greeks, Roman Empire, Middle Ages, Islam, Renaissance, Reformation, and World Exploration. Second semester students analyze the change in World Culture/Politics through events such as the Industrial Revolution, and Imperialism, as well as conflicts like the French Revolution, World Wars, and the Cold War.

**MODERN US HISTORY (11<sup>th</sup> - 12<sup>th</sup>)** 1 SEMESTER 1 Credit

Modern US History is an in-depth study of our nation from the mid 1960s–1990's. Topics include the Civil Rights, Cuban Missile Crisis, Vietnam, the 60s counterculture revolution, Watergate scandal, and terrorism. These topics are explored and discussed through the use of primary and secondary sources.

**ECONOMICS (11<sup>th</sup> - 12<sup>th</sup>)** 1 SEMESTER 1 Credit

Economics deals with the American free enterprise system, government regulation of business, and the United States' role in the world's economy. Students will learn how the economic choices of larger groups, like businesses and governments, affect them and others.

**Western Iowa Tech online** elective course possibilities include Introduction Psychology, Introduction to Sociology and Western Civilization. Please see page 22 for more WIT online information.

## FOREIGN LANGUAGE (Electives)

**Prerequisite:** the successful completion of the previous level of high school Spanish is required before taking the next level.

<b>SPANISH I</b> (9 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	2 Credits
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Spanish I includes developing the four skills of listening, speaking, reading, and writing within the context of today's Spanish-speaking world. Students deal with the language on a concrete level as they learn to express simple needs and basic courtesies. The focus is to develop a solid base of grammar skills to foster communication skills in the target language.

<b>SPANISH II</b> (10 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	2 Credits
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Spanish II furthers the students' skills of writing, listening, reading, and speaking. Students can carry on longer conversations and begin to personalize language. While the focus is still on communication, students will master the competence of communicating in proper tense forms.

**Spanish III and IV are suggested for students planning to attend a four year university:**

<b>SPANISH III</b> (11 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	2 Credits
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Spanish III includes a concise review of the grammar points that pose the greatest difficulty to English-speaking students. Listening, speaking, reading and writing skills are presented in an integrated format. Students move from a teacher-directed conversational approach to a freer, more natural dialogue. Reading includes journals and literature formats. Listening skills are developed through classroom interaction, videos and music.

<b>SPANISH IV</b> (12 <sup>th</sup> )	<b>Class size limit: 24</b>	FULL YEAR	2 Credits
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Spanish IV combines advanced composition and beginning literary analysis. Students improve their listening, speaking, reading, and writing skills through everyday conversation, creative writing and reading short stories, novels and newspapers. Mastery of difficult grammar concepts will also be expanded as will knowledge of Spanish culture.

## HEALTH AND PHYSICAL EDUCATION (See pg 5 for PE REQUIREMENTS)

<b>HEALTH</b> (9 <sup>th</sup> - 12 <sup>th</sup> )	1 or 2 SEMESTERS	1 Credit ea
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Health is a two-semester elective course, and students may take 1 or both semesters in any order. Health class focuses on concepts designed to provide students with the opportunity to learn about personal health in a systematically organized and focused classroom setting. Units include but are not limited to Personal Wellness, Risk and Management, Choices and Consequences, Nutrition, Personal Fitness, Disease, Substance Use and Abuse, Mental and Emotional Health, Relationships, Family Life, Personal Safety, Consumer Health, Environmental Health, First Aid and CPR.

<b>PHYSICAL EDUCATION</b> (9 <sup>th</sup> - 12 <sup>th</sup> )	1 or 2 SEMESTERS	.6 Credit ea
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Instruction focuses on fitness, team sports, recreational activities, individual and dual sports and lifetime activities. Class meets three days a week. Students must wear proper gym clothes.

<b>EARLY BIRD PE</b> (9 <sup>th</sup> - 12 <sup>th</sup> )	1 or 2 SEMESTERS	.6 Credit ea
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Same description as PE above except that this class meets before school - 7:15 A.M. to 7:50 A.M.

<b>WEIGHT TRAINING</b> (9 <sup>th</sup> - 12 <sup>th</sup> )	1 or 2 SEMESTERS	.6 Credit ea
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Weight Training is an exercise program involving the use of weights to develop the overall strength of the body, as well as boost self-esteem. Programs may be established for individuals to improve performance in specific sports, or to develop and maintain a healthy lifestyle. Anatomy and nutrition information is discussed throughout the year. Weight Training helps fulfill the WC Physical Education requirement.

**EARLY BIRD WEIGHTS** (9<sup>th</sup> – 12<sup>th</sup>) 1 or 2 SEMESTERS .6 Credit ea

Same description as Weights above except that this class meets before school for 45 minutes between 6:00 A.M. and 7:00 A.M.

**MEDICAL TERMINOLOGY\*\*** (10<sup>th</sup> – 12<sup>TH</sup>) 1 SEMESTER 1 Credit

This class provides students with a basic and fundamental understanding of terminology for persons working within the healthcare profession. This course is beneficial to those considering a career in the healthcare industry. This is a comprehensive course with a systematic approach of using Greek and Latin prefixes, roots, and suffixes to define, build and spell medical terms. Because legality and communication is critical to this career cluster, correct spelling and pronunciation is emphasized.

**Class size limit: 15** **\*\*This is a 3-credit WIT College Course – HSC 114**

**NURSE AIDE\*\*** (10<sup>th</sup> – 12<sup>th</sup>) 1 SEMESTER 1.5 Credit

Prerequisite: 16 yrs old, physical, updated immunizations & background check (forms provided)

This course is designed for students interested in nursing skills at the college entry level. It includes all of the necessary competencies and skills to work as a Nurse's Aide. This 75-hour basic nursing course includes 30 hours of clinical experience at Kingsley Specialty Care. The curriculum is developed and updated by the University of Iowa and Area Vocational Schools. Upon successful completion of this course, students are eligible to take the CNA competency test through WIT.

**Class size limit: 6** **\*\*This is a 4-credit WIT College Course – HSC 173/174**

**Western Iowa Tech online** elective course possibilities include Introduction to Health Occupations, Exploring Health Careers and Building Teams, Issues in Health and Society and Pharmacology.

Upon successful completion of (1)Coaching Ethics, Techniques and Theory, (2)Athletic Development and Human Growth, (3)Body Structure and Function and (4)Athletic Injury Prevention, students earn a Coaching Certificate which qualifies them to apply for coaching authorization through the Iowa Board of Educational Examiners.

Please see page 22 for more WIT online information.

## FINE ARTS DEPARTMENT (Electives)

**\*\*A student who earns a A- or better in a \*\*designated class, can take an advanced level of the same course.**

**DESIGN\*\*** (9<sup>th</sup> – 12<sup>th</sup>) **Class size limit: 20** 1 SEMESTER FEE: \$3.00 1 Credit

Design is a general arts class exploring personal expression through a variety of media including painting, drawing, India ink, cut paper, printmaking, and others. The class is geared towards using art to communicate and solve visual problems while also experimenting and exploring with art.

**DRAWING\*\*** (9<sup>th</sup> – 12<sup>th</sup>) **Class size limit: 20** 1 SEMESTER FEE: \$3.00 1 Credit

Drawing class helps us understand the way we see and represent various natural and human-made images and objects. Students will use pencil, pen and ink, charcoal, pastels, markers, and other drawing instruments to create various drawings.

**GRAPHIC DESIGN\*\*** (9<sup>th</sup> - 12<sup>th</sup>) **Class size limit: 16** 1 SEMESTER FEE: \$3.00 1 Credit

Graphic Design examines visual communication to audiences, both large and small. Basic design skills, symbols, illustrations, and the power of persuasion are all discussed, along with how these impact the world of advertising. Students will explore print and digital design through projects involving developing computer skills, as well as traditional handmade art and design.

<b>PAINTING**</b> (9 <sup>th</sup> - 12 <sup>th</sup> )	<b>Class size limit: 18</b>	1 SEMESTER	FEE: \$3.00	1 Credit
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Painting explores the process and techniques of tempera, acrylic, and watercolor painting mediums. Students will learn about and research art movements and styles, along with the work and lives of individual artists. Focus is on creative, analytical and independent thinking.

<b>POTTERY/SCULPTURE**</b> (9 <sup>th</sup> - 12 <sup>th</sup> )	<b>Class size limit: 18</b>	1 SEMESTER	FEE: \$3.00	1 Credit
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Students will explore various art problems by creating three-dimensional solutions. Students explore their imaginations as they create with clay, paper, plaster, cardboard, and found objects. They are introduced to various pottery creation techniques.

<b>PHOTOGRAPHY**</b> (9 <sup>th</sup> - 12 <sup>th</sup> )	<b>Class size limit: 12</b>	1 SEMESTER	FEE: \$5.00	1 Credit
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Students will learn about a variety of aspects of photography including the history of photography, various famous photographers, social issues related to photography, how to take better pictures in film and digital, and how to take, develop, and print film photographs. Students do not need to supply their own cameras.

<b>YEARBOOK</b> (10 <sup>th</sup> – 12 <sup>th</sup> )	<b>Class size limit: 10</b>	1 or 2 SEMESTERS	1 Credit ea
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Prerequisite: Instructor approval and class size less than 10 for 9<sup>th</sup> graders to be admitted

Students engage themselves in the writing process and visual arts. The yearbook staff chooses the design and layout of the school's yearbook. With each assigned spread, students: design the layout, write copy about the subject assigned, and obtain pictures necessary for completion of the spread. Students are required to complete ALL assigned spreads. Students also engage themselves in the business side of production. They are required to sell ads and send out billing invoices. They examine how these funds, along with book sales, are used to fund the production of the book.

<b>BAND</b> (9 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	1 Credit
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Literature of varied composers, styles, types and degree of difficulty are studied and performed. Students are eligible to participate in solo and ensemble contests, and audition for the Northwest Iowa Honor Band and the All-State Music Festival. Pep band is part of this program; musicians perform at home athletic events and other school functions. Marching band is open to all students playing a band instrument, as well as non-band students who are part of the District's auxiliary marching units. This group performs at home football games, parades, festivals and the State Marching Band Contest. Students must participate in Marching Band and Pep Band if you elect to be part of Concert Band.

<b>CHOIR</b> (9 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	1 Credit
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All choir groups will study/apply proper vocal technique, study/review basic music theory and terminology, develop sight-reading, study function and structure of the human voice, study the development of vocal health techniques, and experience an overview of music theory through the performance of various styles of choral music. Each ensemble will prepare performance music to be presented at specific concerts, festivals, and competitions. Students are expected to perform in all concerts scheduled for their group. Singers are eligible to participate in State Solo and small Ensemble Contests, as well as Honor Choirs.

<b>MUSIC THEORY</b> (11 <sup>th</sup> – 12 <sup>th</sup> )	1 SEMESTER	1 Credit
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Prerequisite: enrolled in either band or choir, or have teacher approval

Music Theory is an academic class that provides training in basic musical skills including concepts of pitch, rhythm and time signatures, scales and key signatures, intervals, chords, cadences, and rules for part writing. This course will also provide an introduction to aural skills.

**Western Iowa Tech online** elective course possibilities include Art Appreciation, Music Appreciation and Introduction to Theater. Please see page 22 for more WIT online information.

## EDUCATION

**Foundations of Education\*\*** (11<sup>TH</sup> – 12<sup>TH</sup>)

1 SEMESTER

1 Credit

This course is offered in the **FALL** only. It offers an introduction to professional education, providing a historical and philosophical background from which the student can examine his or her own commitment to education. Current challenges and issues in education will be discussed in the context of school organization, funding, curriculum, professionalism, legal issues, and effective teacher characteristics.

**\*\*This is a 3-credit WIT College Course – EDU 210**

**Western Iowa Tech online** elective course possibilities include Adolescent Psychology, Developmental Psychology, Human Relations, Exceptional Learner and Educational Psychology. Please see page 22 for more WIT online information.

## CAREER AND TECHNICAL EDUCATION (Electives)

### WEB PAGE, DIGITAL/MULTIMEDIA AND INFORMATION RESOURCE DESIGN

- |                                       |           |
|---------------------------------------|-----------|
| 1. MICROSOFT OFFICE                   | FULL YEAR |
| 2. WEB PAGE                           | FULL YEAR |
| 3. MULTIMEDIA INFORMATIONAL RESOURCES | FULL YEAR |
| 4. SCHOOL TO WORK                     | FULL YEAR |

### BUSINESS/COMMERCE

- |                     |                          |
|---------------------|--------------------------|
| 1. MICROSOFT OFFICE | FULL YEAR                |
| 2. BUSINESS LAW     | 1 <sup>ST</sup> SEMESTER |
| 3. GENERAL BUSINESS | 2 <sup>ND</sup> SEMESTER |
| 4. ACCOUNTING       | FULL YEAR                |

**MICROSOFT OFFICE** (9<sup>TH</sup> – 12<sup>TH</sup> **REQUIRED**) **Class size limit: 20**

FULL YEAR

2 Credits

Office familiarizes students with the Microsoft Office software package. Students have hands-on experiences with Power Point, Excel, Access, Publisher, Email, Printing, Google Docs, Formatting, Digital media, Scanning and other necessary computer literacy components. Semester 1 and 2 are a graduation requirement.

**WEB PAGE** (9<sup>TH</sup> - 12<sup>TH</sup>)

**Class size limit: 10**

1 OR 2 SEMESTERS

1 Credit ea

Web Page manages the school web site through research and design activities.

**MULTIMEDIA INFORMATIONAL RESOURCES** (11<sup>TH</sup> – 12<sup>TH</sup>)

1 OR 2 SEMESTERS

1 Credit ea

This class prepares students to apply HTML, XML, Javascript, graphics applications, and other authoring tools to the design, editing, and publishing (launching) of documents, images, graphics, sound, and multimedia products on the World Wide Web. Included is Internet theory, web page standards and policies, elements of web page design, user interfaces, vector tools, special effects, interactive and multimedia components, search engines, navigation, morphing, e-commerce tools, and emerging web technologies.



<b>SCHOOL TO WORK</b> (12 <sup>TH</sup> )	1 or 2 SEMESTERS	1 Credit ea
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The purpose of the Woodbury Central School to Work program is to provide an opportunity for all students to develop employment skills necessary to succeed through career guidance, career exploration, and career management.

<b>BUSINESS LAW</b> (11 <sup>th</sup> - 12 <sup>th</sup> )	1 SEMESTER	1 Credit
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Business Law familiarizes students with the basic principles of law, and their applications to daily life. The course covers law history, individual rights, contracts as well as civil, criminal and juvenile law. Students participate in a mock trial and attend a state or federal trial in Sioux City as part of the course.

<b>GENERAL BUSINESS</b> (10 <sup>th</sup> - 12 <sup>th</sup> ) <b>Class size limit: 20</b>	1 SEMESTER	1 Credit
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General Business deals with business issues important to students. Subjects covered include the stock market, resumes, job applications, interviewing process, insurance, banking, investing, budgeting, personal credit, auto/life insurance and business careers.

<b>ACCOUNTING</b> (11 <sup>th</sup> - 12 <sup>th</sup> )	FULL YEAR	2 Credits
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Accounting offers fundamental knowledge and practice of recording and analyzing business transactions for various types of businesses. Students study the elements of a double entry process of recording and analyze business transactions. The course introduces basic principles, concepts, and bookkeeping procedures for sole proprietorships, partnerships and corporations. Students also learn to record, read and interpret financial data.

**Western Iowa Tech online** elective course possibilities include Introduction to Business, Business Communications, Introduction to Computers, Principles of Accounting and Principles of Marketing. Please see page 22 for more information.

## FAMILY & CONSUMER SCIENCE (Electives)

<b>FOODS 1</b> (9 <sup>th</sup> -12 <sup>th</sup> )	<b>Class size limit: 20</b>	1 SEMESTER	1 Credit
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Foods 1, an introductory course in food preparation, examines proper use of small and large equipment, safety and sanitation procedures, and nutrition. Students examine food principles, create, sample and evaluate foods in the following units: fruits, vegetables, salads, grains, pasta, quick breads and cookies.

<b>FOODS 2</b> (9 <sup>th</sup> -12 <sup>th</sup> )	<b>Class size limit: 20</b>	1 SEMESTER	1 Credit
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Prerequisite: Foods 1

This course is a continuation of Foods 1 and includes the study, preparation, sampling and evaluation of foods in the following categories: meats, dairy, eggs, soups and casseroles. Students examine nutritional needs throughout the life cycle, menu planning and purchasing food.

<b>PROSTART I</b> (10 <sup>th</sup> -12 <sup>th</sup> )	<b>Class size limit: 16</b>	FULL YEAR	2 Credits
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ProStart introduces students to restaurant and foodservice concepts not found in the traditional Foods courses. ProStart I prepares students for entry level (or above) jobs in the hospitality/food industry and/or future culinary training. Students will learn about advanced quantity food preparation techniques, forms of meal service, production management, and customer relations.

<b>PROSTART II</b> (10 <sup>th</sup> -12 <sup>th</sup> )	<b>Class size limit: 16</b>	FULL YEAR	2 Credits
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ProStart II continues to build fundamental skills and combines daily food work with hands-on kitchen practice. Students may earn the ProStart National Certificate of Achievement which can open the door to scholarships and college credits, as well as increased employment opportunities in the industry. Selected students will have the opportunity to compete in the State ProStart competition for Restaurant Management and/or Culinary.

## INDUSTRIAL TECHNOLOGY (Electives)

<b>MANUFACTURING &amp; DESIGN</b>
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- |                             |                                |
|-----------------------------|--------------------------------|
| 1. <b>Woods</b>             | <b>1<sup>st</sup> SEMESTER</b> |
| 2. <b>DRAFTING</b>          | <b>2<sup>nd</sup> SEMESTER</b> |
| 3. <b>CAD I</b>             | <b>FULL YEAR</b>               |
| 4. <b>CAD 2</b>             | <b>FULL YEAR</b>               |
| 5. <b>INDUSTRIAL TECH 2</b> | <b>FULL YEAR</b>               |
| 6. <b>INDUSTRIAL TECH 3</b> | <b>FULL YEAR</b>               |
| 7. <b>SENIOR SHOP</b>       | <b>FULL YEAR</b>               |

<b>WOODS</b> (9 <sup>th</sup> - 12 <sup>th</sup> )	<b>Class size limit: 12</b>	1 SEMESTER	1 Credit
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Woods is an entry level course that focuses on developing acceptable workplace practices. Students learn safety and the proper use of hand and power tools. When appropriate, students will then complete a wood project for home use.

<b>DRAFTING**</b> (9 <sup>th</sup> - 12 <sup>th</sup> )	<b>Class size limit: 16</b>	1 SEMESTER	1 Credit
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Drafting teaches fundamentals and is designed for the beginning drafter. The class begins with basic tools and progressively becomes more difficult. Students study sketching and drafting tools, line convention, dimensioning and centering views. They learn to draw single, orthographic, oblique, isometric, and sectional views.

**\*\*This is a 3-credit WIT College Course – DRF 113**

<b>CAD I**</b> (10 <sup>th</sup> - 12 <sup>th</sup> )	<b>Class size limit: 10</b>	FULL YEAR	2 Credits
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Prerequisite: Successful completion of Drafting

**\*\*This is a 3-credit WIT College Course – CAD 267**

CAD I students will focus on 2D CAD the first semester using Versa-CAD and VAD Key software, then switch to 3D drafting the second semester using Pro Desk Top to learn the basic concepts of Computer Aided Drafting and Design. The curriculum is progressive; as students learn one area of design they immediately move onto another. **Semester two is for high school credit only.**

<b>CAD 2</b> (11 <sup>th</sup> - 12 <sup>th</sup> )	<b>Class size limit: 10</b>	FULL YEAR	2 Credits
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Prerequisite: Successful completion of CAD I

CAD II is an Architectural drafting course that focuses on basic single family dwellings. Students will use the Versa-CAD, Chief Architect and other production software to advance their knowledge of Computer Aided Drafting and Design. Students will complete several design projects and presentations during the year. Students must demonstrate math, writing and presentation skills.

<b>INDUSTRIAL TECH 2</b> (10 <sup>th</sup> - 12 <sup>th</sup> )	<b>Class size limit: 12</b>	FULL YEAR	2 Credits
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This course is designed to provide students with basic manufacturing skills. Topics include safety, equipment setup, bench skills, job estimating, and employment skills. **Welding:** all common welding processes are introduced. **Machine Tools:** machining, precision measurement, layout, blueprint reading and bench work are practiced. **Small Engines:** students learn to repair common small engines. **Fabrication:** students will design and assemble or repair various projects provided.

<b>INDUSTRIAL TECH 3</b> (11 <sup>th</sup> - 12 <sup>th</sup> )	<b>Class size limit: 12</b>	FULL YEAR	2 Credits
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Industrial Tech III examines Construction and Building Maintenance. This course is a combined lecture and lab with an emphasis on practical application. **Construction:** students learn about basic measuring, layout, foundations, framing floors, walls, ceilings and roofs. **Building Maintenance:** students learn to repair or replace common building systems and subsystems. They complete group and individual projects throughout the year.

**SENIOR SHOP** (12<sup>th</sup>)                      **Class size limit: 8**                      1 or 2 SEMESTERS                      1 Credit ea

Prerequisite: **Three** previous Industrial Tech Courses and approval of Instructor. Before approval is granted prospective students must interview with instructor and submit a formal paper covering their proposed projects and goals for the semester. Seniors are expected to complete (1) project per quarter, **at their expense**. Students will be required to complete bi-weekly written reports detailing their progress and work. Seniors are required to mentor underclassman in their areas of expertise and use their skills to better the school and community.

## **AGRICULTURE (Electives)**

**Fall 2018 will be the fourth year our students are taking part in the Agriculture program at Lawton-Bronson. Just like us, LB may change their course offerings, depending on how many students sign up for the courses. We may not know until summer if the AG classes will fit into our students' schedules.**

**AGRICULTURE, FOOD AND NATURAL RESOURCES (AFNR)** (9<sup>th</sup> – 12<sup>th</sup>)    FULL YEAR                      2 Credits

This is an introductory course that presents students with the foundations of plant and animal sciences. Students will develop skills and knowledge in plant science, soil fertility and conservation, animal science and the agricultural mechanics that relate to these life sciences. Students will learn fundamental leadership skills while studying FFA and demonstrating Parliamentary Procedure.

**NATURAL RESOURCES AND ECOLOGY** (11<sup>TH</sup> – 12<sup>TH</sup>)                      FULL YEAR                      2 Credits

This course offers a broad and diverse study of wildlife habitats, characteristics, natural resources, water quality and forestry management and preservation. It also emphasizes the development of knowledge and skills in soils, aquatics and prairies.

**ANIMAL SCIENCE** (9<sup>th</sup> – 12<sup>th</sup>)                      1 SEMESTER                      1 Credit

This course will focus on domesticated animals like beef, dairy, horses, swine, goats, sheep and alternative livestock. Emphasis will be on the application of science in the care and management of these animals.

**AGRONOMY** (9<sup>th</sup> – 12<sup>TH</sup>)                      1 SEMESTER                      1 Credit

The focus of this course is on the production of agricultural crops including soybeans, small grains, hay and alternative crops. Emphasis will be on the development of management skills needed in industry.

**AG LEADERSHIP** (9<sup>TH</sup> – 12<sup>TH</sup>)                      1 SEMESTER                      1 Credit

This course is designed to involve students in developing leadership, self-concept, motivation, communication, team building, decision-making and many other hands-on activities.

**AG BUSINESS** (9<sup>th</sup> – 12<sup>th</sup>)                      1 SEMESTER                      1 Credit

This course is an introduction to agribusiness management. It will emphasize the application of basic, practical business management skills in marketing, demand analysis, forecasting, production, finance and leadership with a global perspective.

**Western Iowa Tech online** elective course possibilities include Animal Health, Farm Business Management, AG Finance and Survey of the Animal Industry. Please see page 22 for more information.

## **WIT CAMPUS COURSES (Electives)**

**Students are responsible for their own transportation to/from WIT in Sioux City for Auto, Welding and Manufacturing.**

### **AUTOMOTIVE – 5001 East Gordon Drive**

1. Introduction to Auto Technology	1 <sup>st</sup> Semester 1 <sup>st</sup> Year	7:35 – 8:55 return to 3 <sup>rd</sup> period
2. Automotive Electricity/Electronics	2 <sup>nd</sup> Semester 1 <sup>st</sup> Year	same
3. Automotive Engine Repair	1 <sup>st</sup> Semester 2 <sup>nd</sup> Year	2:03 – 3:23 leave WC after 5 <sup>th</sup> period
4. Automotive Electrical Systems	2 <sup>nd</sup> Semester 2 <sup>nd</sup> Year	same

**Upon completion of these classes plus SDV 108 The College Experience, students earn an Automotive Electrical Certificate.**

**INTRODUCTION TO AUTO TECHNOLOGY\*\* (11th - 12th) 1 SEMESTER 1 Credits**

This course provides basic instruction in shop skills including precision measuring, the use of hand tools, power tool use, fittings, fasteners, service manual use and related shop equipment. It covers the basics of electrical systems, drive train, fuel, brakes, heating, air conditioning, wheels and tires. It also emphasizes shop safety practices in each area of study.

**\*\*This is a 3-credit WIT College course – AUT 104**

**AUTOMOTIVE ELECTRICITY/ELECTRONICS\*\* (11<sup>th</sup> - 12<sup>th</sup>) 1 SEMESTER 1.5 Credits**

This course covers theory, diagnosis and service practices related to electronic systems found on today's automobiles. The basics of electricity, meter use and circuit analysis will be extensively covered. Semiconductor use and computer operation will also be covered.

**\*\*This is a 4-credit WIT College course – AUT 615**

**AUTOMOTIVE ENGINE REPAIR\*\* (12th) 1 SEMESTER 1.5 Credits**

This is a combined lecture/lab course that provides information in areas of engine mechanical diagnosis and service. It includes lab experience in the overhaul of a variety of automotive engines, cylinder head service, engine machining, overhead cam, and multiple valve technology.

**\*\*This is a 4-credit WIT College course – AUT 164**

**AUTOMOTIVE ELECTRICAL SYSTEMS\*\* (12<sup>th</sup>) 1 SEMESTER 1.5 Credits**

This course covers theory, diagnosis, and service practices related to electronic systems found on today's automobiles. The emphasis is on battery starting and charging systems, lighting systems, and hybrid vehicle electrical systems.

**\*\*This is a 4-credit WIT College course – AUT 633**

## WELDING – 5001 East Gordon Drive

1. GMAW	1 <sup>st</sup> Semester 1 <sup>st</sup> Year	8:30 – 10:40 return to 4 <sup>th</sup> period
2. Arc Welding Intermediate	2 <sup>nd</sup> Semester 1 <sup>st</sup> Year	same
3. Arc Welding II	1 <sup>st</sup> Semester 2 <sup>nd</sup> Year	same
4. Intermediate Pulse Arc Welding	2 <sup>nd</sup> Semester 2 <sup>nd</sup> Year	<b>**Day 1 and 2 8:00 – 4:30 then 8:30 – 10:40</b>

Upon completion of these classes plus SDV 108 The College Experience and MAT 772 Applied Math, students earn a Production Welding Certificate.

**GMAW\*\*** (11<sup>th</sup> – 12<sup>th</sup>) 1 SEMESTER 2 Credits

This course offers an introduction to Gas Metal Arc Welding, which is used extensively by industry. Through lab and lecture, students learn hands on applications, metal transfer concepts, equipment maintenance, welding procedures and safety. Skills also include fusion welding and brazing on light guage metals, cutting on heavy and light guage metals and welding of small diameter pipe.

**\*\*This is a 6-credit WIT College course – WEL 423/422**

**ARC WELDING INTRODUCTION\*\*** (11<sup>TH</sup> – 12<sup>TH</sup>) 1 SEMESTER 2 Credits

Students study safety, heat settings, polarity, penetration welding, horizontal and vertical welding, and the proper selection of electrodes in the arc welding process. Topics include welding on carbon steel plate using visual and destructive methods of determining weld quality to AWS Standards.

**\*\*This is a 6-credit WIT College course – WEL 120/147**

**ARC WELDING INTERMEDIATE\*\*** (12<sup>th</sup>) 1 SEMESTER 1.5 Credits

This course combines lecture and lab activities to present the Gas Metal Arc Welding process used extensively by industry, with a focus on pulse metal transfer. It emphasizes hands-on applications, metal transfer concepts, GMAW equipment, welding procedures, and out of position welding with an emphasis on aluminum and mild steel, as well as safety.

**\*\*This is a 4-credit WIT College course – WEL 148/425**

**INTRODUCTION TO PULSE ARC WELDING\*\*** (12<sup>th</sup>) 1 SEMESTER 2 Credits

This course combines lecture and lab activities to present the Gas Metal Arc Welding (MIG) process used extensively by industry with a focus on pulse metal transfer. This course emphasized hands-on applications, GMAW pulse arc transfer concepts, GMAW pulse arc equipment, welding procedures, out of position welding, with an emphasis on stainless and mild steels and safety.

**\*\*This is a 5-credit WIT College course – WEL 424/110/ELE 101**

## MANUFACTURING - Advanced Manufacturing Lab – ADS L418

### (Main campus/Main building)

Eligible: Seniors who have completed CAD I (2 semesters) and CAD 2 (2 semesters) at Woodbury Central

- |   |                          |   |
|---|--------------------------|---|
| 1. Manufacturing Processes & Intro to CAD/CAM | 1 <sup>st</sup> Semester | 8:30 – 10:35 Mon – Thurs return to 4 <sup>th</sup> period |
| 2. Manufacturing Design                       | 2 <sup>nd</sup> Semester | 8:30 – 10:35 Mon - Thurs return to 4 <sup>th</sup> period |

MANUFACTURING PROCESSES** (12 <sup>th</sup> )	1 SEMESTER	1 Credit
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This course is intended to provide basic knowledge and background covering manufacturing systems, properties and production of metals, basic machine tool elements and basic machining processes. An understanding of safety when working with machine operations will be emphasized.

**\*\*This is a 3-credit WIT College course – MFG 206**

INTRODUCTION TO CAD/CAM** (12 <sup>TH</sup> )	1 SEMESTER	1 Credit
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This course is an introduction to computer-aided drafting and computer aided manufacturing. The student will learn basic CAD/CAM software commands and processes and progress to specific command sequence operations related to manufacturing.

**\*\*This is a 3-credit WIT College course – MFG 322**

MANUFACTURING DESIGN**(12 <sup>TH</sup> )	1 SEMESTER	1.5 Credit
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This course provides students a fundamental understanding of design and construction of special tools. Students design and/or build tooling while completing a hands-on project.

**\*\*This is a 4-credit WIT College course – MFG 148**

### WIT ONLINE COURSES (Electives)

Students with proficiency scores on Iowa Assessments are eligible to enroll in online WIT courses. Students may take a class to explore an interest in a certain area, or they may choose to take a basic general education class that should transfer to most state or local colleges. Students earn college credit for these classes, while also earning high school credit. These are considered **DUAL CREDIT** classes.

As soon as a student knows what college they will attend, we can match what they take through WIT with what their college will accept as transfer credits.

**Students must meet any prerequisite or assessment requirements of WIT. WIT testing center - 712-274-6400 Extension 6443. Textbooks must be picked up and returned by students to the WIT bookstore.**

As soon as a student registers for a WIT course, they become a college student with a college GPA. Each WIT course might have a different grading scale so it is important to read your instructor's syllabus. It is the responsibility for a college student to communicate any questions or concerns with instructors. Parents should not do this for you.

WIT has 10 Associate Degree programs of study that can be completed online (64-66 credits); Agriculture, Business Administration, English, Education, History, Political Science, Psychology, Sociology (Associate of Arts), Mathematics (Associate of Science) and Agri-Business (Associate of Applied Science). Students interested in these specific programs could earn many of these credits during high school if they are successful with the online aspect. For more details about these programs, please refer to WIT's website <https://www.witcc.edu/distance/programs.cfm>

Students should speak to Mrs. Walker to see if they are eligible for WIT online courses and to discuss course selection.

**It is necessary to meet the Woodbury Central registration deadlines: Fall classes – May 21      Spring classes – December 20**

## **SUGGESTED ONLINE WIT COURSES (all one semester in length):**

(WIT3-WC1) = number of credits received

CPT = College Placement Test at WIT

\*taught at Woodbury Central

### **COLLEGE SUCCESS**

SDV 108 (WIT1-WC.5) **College Experience** - introduces students to the College's expectations, environment, and resources

### **ENGLISH AND SPEECH**

ENG 105 (WIT3-WC1) **Composition I** (PreReq: ACT Comp 22/Eng 18 or CPT)– exploration of writing as a process with attention to audience, purpose and patterns of exposition

ENG 106 (WIT3-WC1) **Composition II** (PreReq: ENG 105) – emphasis on developing more complex, sophisticated forms of exposition, includes a research paper

LIT 101 (WIT3-WC1) **Introduction to Literature** (PreReq: ENG 105) - introduction to the study of short fiction, poetry, and drama

LIT 105 (WIT3-WC1) **Children's Literature** – survey of children's literature suitable for elementary education

\*SPC 112 (WIT3-WC1) **Public Speaking** – speech performance skills and delivery, preparation, organization, support and audience analysis

\*COM 723 (WIT3-WC1) **Workplace Communications** – communication as applied to occupational and personal use through reading, writing and speaking

The **University of Iowa** accepts Comp I + Comp II + Public Speaking TOGETHER to complete a Rhetoric course requirement.

**Iowa State University** and the **University of Northern Iowa** accept all three of them separately.

### **SCIENCE AND MATH**

BIO 151 (WIT3-WC1) **Nutrition** (PreReq: ACT Comp 22/Science 23 or CPT) - relationship between proper nutrition and good health, digestion, absorption, metabolism, vitamins, exercise and the life cycle

BIO 163 (WIT4-WC1.5) **Essentials of Anatomy & Physiology** - human organ system, medical terminology, homeostasis, cell and tissue structure and function

BIO 169 (WIT4-WC1.5) **Human Anatomy and Physiology w/lab** (PreReq: see Mrs. Walker) – structure/function/homeostasis, skeletal, muscular and nervous systems

ENV 111 (WIT4-WC1.5) **Environmental Science** - ecosystems, pollution, population, extinction, ethics, energy, food, conservation, and their interrelationships

MAT 102 (WIT4-WC1.5) **Intermediate Algebra** (PreReq: CPT) - problem solving, graphs/data, radical/quadratic equations, variations, exponential functions

MAT 111 (WIT4-WC1.5) **Math for Liberal Arts** (PreReq: MAT 102 OR CPT) – broad mathematical knowledge to calculate, analyze, and solve day-to-day problems

MAT 121 (WIT4-WC1.5) **College Algebra** (PreReq: ACT Comp 22/Math 23 or CPT) - quadratics, conics, linear systems, series, permutations, and probability

MAT 772 (WIT3-WC1) **Applied Math** - fundamental arithmetic concepts and more routine algebraic operations

### **HEALTH SCIENCE and AGRICULTURE**

\*HSC 114 (WIT3-WC1) **Medical Terminology** – language of medicine, spelling, pronunciation and usage, emphasis on word analysis and construction of definitions

\*HSC 173/174 (WIT4-WC1.5) **Nurse Aid Theory/Clinical** – patient care in the health care environment; anatomy, physiology, human needs, safety measures

HSC 105 (WIT1-WC.5) **Health Occupations** – career options in the health care industry through research and projects

HSC 109 (WIT3-WC1) **Exploring Health Careers and Building Teams** – study of team dynamics and communication techniques, career exploration

HSC 111 (WIT3-WC1) **Issues in Health and Society** – overview of current issues, concepts and theories in health care

HSC 143 (WIT3-WC1) **Pharmacology** – framework to recognize medication, rational for treatment, side effects, allergic effects and health care issues

AGS 113 (WIT3-WC1) **Survey of Animal Industry** – broad spectrum of animal science; beef, swine, sheep, dairy, horse and poultry production

AGS 242 (WIT3-WC1) **Animal Health** - cause, nature, prevention and treatment of common health problems of farm animals

AGB 330 (WIT3-WC1) **Farm Business Management** - principles of farm management in developing a farm or farm business operation

### **SOCIAL AND BEHAVIORAL SCIENCES**

ECN 120 (WIT3-WC1) **Principles of Macroeconomics** – economy performance, topics of fiscal and monetary policy on inflation, unemployment and economic growth

ECN 130 (WIT3-WC1) **Principles of Microeconomics** - households, firms and governments and how their choices affect domestic/international market structures

HIS 110 (WIT3-WC1) **Western Civilization (Ancient to Early Modern)** - change, dynamics and interrelationships of events of Ancient, Medieval, Renaissance and beginnings of early modern times

HIS 111 (WIT3-WC1) **Western Civilization (Early Modern to Present)** - western history from the Age of Enlightenment in the Eighteenth century to present day

PSY 111 (WIT3-WC1) **Intro to Psychology** - nervous system, learning and memory, cognition, sensation and perception, motivation and emotion, personality

PSY 121 (WIT3-WC1) **Developmental Psychology** (PreReq: PSY 111) – process of physical, cognitive, social and psychosocial development

PSY 224 (WIT3-WC1) **Adolescent Psychology** (PreReq: PSY 111) - prenatal to adolescent theories of growth, development, personality, social learning, and language

PSY 241 (WIT3-WC1) **Abnormal Psychology** (PreReq: PSY 111) - behavioral changes; diagnosis and treatment, brain and personality disorders

PSY 171 (WIT3-WC1) **Health Psychology** (PreReq: PSY 111) – psychological aspect of illness, hospitalization and lifestyle choices that affect health

PSY 102 (WIT3-WC1) **Human & Work Relations** - psychological theory and practice, conflict resolution, leadership skills, and interpersonal communication

SOC 110 (WIT3-WC1) **Introduction to Sociology** - human social interaction, theory, culture, social structure, socialization, groups and formal organizations

CRJ 100 (WIT3-WC1) **Introduction to Criminal Justice** – history of law enforcement, theories of criminal behavior, law enforcement terminology and technology

## DRAFTING

\*DRF 113 (WIT3-WC1) **Fundamentals of Technical Drafting** – lettering/instrument line techniques, orthographic projections and multi-view drawing techniques

\*CAD 267 (WIT3-WC1) **CAD Two-Dimensional I** (PreReq: DRF 113) - industry practices to create technical drawings of mechanical components on computers

## HEALTH AND PHYSICAL EDUCATION (Completion of these four classes lead to an Iowa Coaching Certificate)

PEC 110 (WIT1-WC.5) **Coaching Ethics, Technique & Theory** - theory and techniques of coaching, related responsibilities, duties and problems

PEC 115 (WIT1-WC.5) **Athletic Development and Human Growth** - physical, psychological and social growth related to physical and competitive athletics

PEC 120 (WIT1-WC.5) **Body Structure and Function** - physiological processes and anatomical features of the human body related to and affected by physical activity

PEC 126 (WIT2-WC1) **Athletic Injury Prevention** - conditioning programs and training methods that tend to prevent athletic injuries

## HUMANITIES

ART 101 (WIT3-WC1) **Art Appreciation** - explores the creative process emphasizing art as a visual form of communication, criteria for eval. and enjoyment of art

DRA 101 (WIT3-WC1) **Introduction to Theatre** - audience/performer relationships, dramatic forms/literature, history of theatre, dramatic theory and criticism

MUS 100 (WIT3-WC1) **Music Appreciation** - musical form, media, genres, musical periods and the essential role of music in life and culture

PHI 101 (WIT3-WC1) **Introduction to Philosophy** - an emphasis on the systematic questioning of basic assumptions about reality, knowledge, meaning, and values

PHI 105 (WIT3-WC1) **Introduction to Ethics** – examines concepts and arguments used in moral reasoning, and applies ethical theories to personal and social issues

## COMPUTERS

CSC 110 (WIT3-WC1) **Introduction to Computers** – software applications, operating systems, word processing, databases, presentations and files management

## ACCOUNTING, BUSINESS AND EDUCATION

BUS 102 (WIT3-WC1) **Introduction to Business** - broad overview of economics, marketing, entrepreneurship and management

ADM 154 (WIT3-WC1) **Business Communications** - principles of business writing, emphasizing the most important and frequently written business correspondence

ACC 111 (WIT3-WC1) **Introduction to Accounting** – recording entries, preparing financial statements, utilizing good cash management skills

MKT 110 (WIT3-WC1) **Principles of Marketing** - consumer and organizational buying behavior, targeting market opportunities, dev/managing new products

\*EDU 210 (WIT3-WC1) **Foundations of Education** - introduction to professional education providing a historical and philosophical background

EDU 220 (WIT3-WC1) **Human Relations** – development of sensitivity to and the understanding of the values, beliefs, lifestyles and attitudes of those in education

EDU 240 (WIT3-WC1) **Education Psychology** – child/adolescent development, learning, motivation, instructional techniques and assessment/evaluation

EDU 245 (WIT3-WC1) **Exceptional Learner** – overview of special education regulations, policies and programs in K-12 educational settings



**NON-DISCRIMINATION STATEMENT:** It is the policy of the Woodbury Community School District not to illegally discriminate on the basis of sex, sexual orientation, gender identity, color, socioeconomic status, race, national origin, creed, age, marital status or disability in its educational programs, activities, or employment policies, as required by Title VI and VII of the 1964 Civil Rights Act. Title IX of the 1972 education amendments, section 504 of the federal rehabilitation act of 1973 and section 601A of the **Iowa Code No. 102**. Inquiries and grievances regarding compliance with the above laws may be directed to Mr. Doug Glackin, Superintendent.

**EQUAL EDUCATIONAL OPPORTUNITY:** The School Board will not discriminate in its educational activities on the basis of race, color, national origin, creed, religion, sex, disability, sexual orientation, socioeconomic status (SES), gender identity or marital status. The board requires all persons, agencies, vendors, contractors and other persons and organizations doing business with or performing services for the school district to subscribe to all applicable federal and state laws, executive orders, rules and regulations pertaining to contract compliance and equal opportunity. The board is committed to the policy that no otherwise qualified person will be excluded from educational activities on the basis of race, color, national origin, creed, religion, sex, marital status, sexual orientation, SES, gender identity or disability. Further, the board affirms the right of all students and staff to be treated with respect and to be protected from intimidation, discrimination, physical harm and harassment: **Iowa Code No. 401.1**.

**EQUAL EMPLOYMENT OPPORTUNITY:** The Woodbury Central Community School District will provide equal opportunity to employees and applicants for employment in accordance with applicable equal employment opportunity and affirmative action laws, directives and regulations of federal, state and local governing bodies. Opportunity to all employees and applicants for employment includes hiring, placement, promotion, transfer or demotion, recruitment, advertising or solicitation for employment, treatment during employment, rates of pay or other forms of compensation, and layoff or termination. The school district will take affirmative action in major job categories where women, men, minorities and persons with disabilities are underrepresented. Employees will support and comply with the district's established equal employment opportunity and affirmative action policies. Employees will be given notice of this policy annually.

The board will appoint an affirmative action coordinator. The affirmative action coordinator will have the responsibility for drafting the affirmative action plan. The affirmative action plan will be reviewed by the board at least every two years.

Individuals who file an application with the school district will be given consideration for employment if they meet or exceed the qualifications set by the board, administration, and Iowa Department of Education for the position for which they apply. In employing individuals, the board will consider the qualifications, credentials, and records of the applicants without regard to race, color, creed, sex, national origin, religion, age, sexual orientation, gender identity or disability. In keeping with the law, the board will consider the veteran status of applicants.

Prior to a final offer of employment for any teaching position the school district will perform the background checks required by law. The district may determine on a case-by-case basis that, based on the duties, other positions within the district will also require background checks. Based upon the results of the background checks, the school district will determine whether an offer will be extended. If the candidate is a teacher who has an initial license from the BOEE, then the requirement for a background check is waived.

Advertisements and notices for vacancies within the district will contain the following statement: "The Woodbury Central Community School District is an EEO/AA employer." The statement will also appear on application forms.

Inquiries by employees or applicants for employment regarding compliance with equal employment opportunity and affirmative action laws and policies, including but not limited to complaints of discrimination, will be directed to the Affirmative Action Coordinator by writing to the Affirmative Action Coordinator, Woodbury Central Community School District, 408 S. 4<sup>th</sup> Street, Merville, Iowa 51039; or by telephoning (712) 873-3128 ext. 104.

Inquiries by employees or applicants for employment regarding compliance with equal employment opportunity and affirmative action laws and policies, including but not limited to complaints of discrimination, may also be directed in writing to the Director of the Region VII, Office for Civil Rights, Citigroup Center, 500 W Madison Street, Suite 1475, Chicago, IL 60661 [\(312\) 730-1560](tel:3127301560), email: [OCR.Chicago@ed.gov](mailto:OCR.Chicago@ed.gov) or the Iowa Civil Rights Commission, 400 E. 14<sup>th</sup> Street, Des Moines, Iowa, 50319-1004, [\(515\) 281-4121](tel:5152814121) or [1-800-457-4416](tel:18004574416), <http://www.state.ia.us/government/crc/index.html>. This inquiry or complaint to the federal office may be done instead of, or in addition to, an inquiry or complaint at the local level.

Further information and copies of the procedures for filing a complaint are available in the school district's central administrative office and the administrative office in each attendance center.