

*Malcolm
High
School*



*Registration
Handbook
2012-13*

Registration Handbook 2012-13

This handbook is designed to help you and your parents make wise decisions regarding your educational experience at Malcolm High School. Important information such as graduation requirements and course offerings (including pre-requisites) are included. Please read the handbook carefully.

Discuss your educational objectives with your parents and develop a four-year plan that will adequately prepare you for your future career or further education. You will have an annual meeting to review your plan with the school counselor who can help you select courses and advise you if necessary.

Students needing schedule changes after initial registration should notify the school counseling office. The counselor, all teachers involved and your parents must agree to all schedule changes. Decisions will be determined on an individual basis taking into consideration such factors as class size, the potential disruption to other classes and the academic benefit to the students. No schedule changes will be made after the first four days of the semester. The principal reserves the right to make the final decision on any schedule change.

GRADUATION REQUIREMENTS (9-12)

A student must pass a minimum of 240 credit hours and which must include:

Language Arts	40 hrs (All students must complete English 9, 10, 11 & 12)
Mathematics	30 hrs (All students must complete 10 hrs of Algebra or equivalent)
Science	30 hrs (All students must complete 10 hrs of Biology)
Social Studies	35 hrs (All students must complete 5 hrs – Civics 5 hrs - American Government 10 hrs - American History 10 hrs – World History 5 hrs – Economic)
Career & Tech Ed	30 hrs (All students must complete 5 hrs – Any Computer Literacy Course. 5 hrs - Business Communications and 20 additional hours of any Business, Computer, Family and Consumer Science or Industrial Technology courses)
Fine Arts	10 hrs
Foreign Language	5 hrs
Health	10 hrs
Physical Education	10 hrs

A student must complete all STAR standards and receive an 80% or higher grade on the STAR standards.

STUDENTS TRANSFERRING FROM OTHER SCHOOLS

All students new to Malcolm High School should register with a parent or legal guardian present. A student's transcript will be evaluated and a plan developed leading to high school graduation.

**Malcolm Public School
Course Listing for 2012-2013**

Please note that this is the master list of **possible** course offerings. Elective classes may not be offered every semester/year. Required courses are indicated with an *.

2-semester courses:

Language Arts Program-40 credits required:

English 9*
English 10*
English 11*
English 12*

1 semester courses:

American Literature
Applied Communications
Creative Writing
General Literature
Journalism
Speech—Beginning
Speech-Advanced (1st semester only)

Math Program- Courses must be completed in the order listed-30 credits required:

Pre-Algebra
Algebra I*
Geometry
Algebra II
Pre-Calculus
Calculus
General Math (11/12)
Business Math (11/12) Pre-requisite: Algebra I & Geometry

Science Program-30 credits required:

Earth Science* (9)
Biology* (10)
Chemistry (11)
Practical Science (11/12)
Physics (11/12) Pre-requisite-Algebra II
Physiology (11/12)
Astronomy
Botany
Environmental Science
Forensic Science

Social Studies Program-30 credits required:

Civics & Government* (9)
American History* (10)
World History* (11)
Economics (12)*
Historical Events
Modern Problems
World Geography

Foreign Language Program-5 credits required:

Spanish I*
Spanish II
Spanish III

Fine Arts Program-10 credits required:

Art:

Art II (Drawing/Painting)
Art III (Sculpture/Graphic Design)
Art IV (Yearbook)

Art I+

+Pre-requisite for Art II, III, and IV

Music:

Instrumental Music
Vocal Music

Music Appreciation (Grades 11-12)

Career and Technical Education Program-30 credits required:

Business:

Accounting I
Accounting II

Personal Finance
Business Communications* (Grade 12)
Business Law (Spring 2013)
Entrepreneurship (Fall)
Management & Leadership (Spring 2012)

Computers:

Network Systems

Computer 9 (1 Quarter)
Computer Concepts
Computer Applications
Web Design

Family and Consumer Science (FCS):

FCS 9 (1 Quarter)
FCS (1 semester)
Adult Living (1 semester/Fall only)
Clothing & Design (1 semester/Fall only)
Nutrition & Food (1 semester)

Parenting (1 semester/Spring only)
Interior Design (1 semester/Spring only)

Industrial Technology (IT):

IT 9 (1 Quarter)
CAD 1 (Grades 9-12) (1st semester)
CAD 3 (Grades 10-12) (1st semester)
Woods 1-Grades 10-11 (1 semester/Fall only)
Woods 2-Grades 11-12 (1 semester/Fall only)
Construction-Grade 12

CAD 2 (Grades 9-12) (2nd semester)
CAD 4 (Grades 10-12) (2nd Semester)
Welding 1-Grades 10-12 (1 semester/Spring only)
Welding 2-Grades 11-12 (1 semester/Spring only)

Physical Education & Health Program-20 credits required:

PE 9*
PE 10*
PE 3
Strength Training

Health I*
Health II*
PE 4

Other General Courses Available:

Career Academies (Junior/Senior Only-require two class periods)

- Health
- Education
- Business (Seniors Only)
- Industrial Technology

College Courses (Senior Only)

UNL/Advance Scholars—must have ACT composite 22
SCC Distance Learning or On-line
Other college partnerships are possible upon timely request

Teacher Aide (Junior/Senior Only)

Work Release (Seniors Only)

Malcolm 9-12 Course Descriptions

2012-2013

LANGUAGE ARTS

Must complete the following 40 hours (8 semesters) to meet graduation requirements:

ENGLISH 9 (2 semesters) 9-12

5 credits per semester

The course includes a research unit which includes a survey of library skills, research techniques, research paper development, culminating in the writing of a research paper; a unit of study of grammar, syntax, and vocabulary; a unit of study of Greek Mythology including Iliad and The Odyssey.

ENGLISH 10 (2 semesters)

5 credits per semester

This course will include vocabulary, the study of poetry, short stories by Edgar Allan Poe, a full-length play by Shakespeare, a final study of modern short stories and their elements. The course includes a writing unit culminating in a research paper, expository writing, persuasive writing, and narrative writing; a unit on grammar is also a semester long study.

ENGLISH 11 (2 semesters) 11

5 credits per semester

This course is a survey course designed for students wanting a basic, comprehensive course of study. Units of study will include vocabulary, the mechanics of punctuation and capitalization, summary writing and writing for analysis, and literature. The literature study will include the areas of poetry, the short story, drama, and the novel. This course also include a research unit which includes a survey of library skills, research techniques, and research paper development, culminating in the writing of a research paper.

ENGLISH 12 (2 semesters)

5 credits per semester

This course will include vocabulary, the study of short stories by classical authors, and a pamphlet by Jonathan Swift, a full-length play by Shakespeare, Dante's *Inferno*, and a graphic novel by Art Spiegelman. The course includes a writing unit culminating in a MLA research paper, descriptive writing, creative writing, and narrative writing; a unit on grammar is also a semester long study.

Electives:

AMERICAN LITERATURE (1 semester) 9-12

5 credits per semester

The class will discuss various American authors and their works. The class will cover the time period from the 1700's to the present. Materials will be short stories, novels, essays and poetry.

APPLIED COMMUNICATION (1 semester) 11 -12

5 credits per semester

A general study of communication theory – the study of verbal and nonverbal communication as well as intercultural communication. This course also covers listening and critical thinking skills, along with mass communication and media literacy.

CREATIVE WRITING (1 semester) 9-12

5 credits per semester

This course will explore the creative mind through various types of writing intermixed at times with the process of illustrations: Children's Books, Obituaries, Newspaper, and Hallmark.

GENERAL LITERATURE (1 semester) 9-12

5 credits per semester

The general study of different genres and authors throughout history having noteworthy content and excellence of style and which may be identified by country, type and/or period of time.

JOURNALISM (2 semesters) 9-12

5 credits per semester

The class will consist of: 1.) a review of grammar rules and vocabulary, 2.) a review of research methods, 3.) developing and writing articles for publication, 4.) interviewing individuals from the school and community and 5.) publishing bi-weekly articles. The students will prepare for and publish a bi-weekly student led newspaper.

SPEECH

BEGINNING SPEECH (1 semester) 9- 10

5 credits per semester

A general, introductory course in oral communication with units of study that include: delivery techniques (visual aids), organization of the speech, and the delivery of basic speeches including an informative, a persuasive, and an interpretive speaking.

ADVANCED SPEECH (1st semester only) 9-12

5 credits per semester

Will study oral communication. In addition to further practice in public speaking, opportunities may be included to study of basic communication, and oral interpretation of literature.

MATHEMATICS

Must complete 30 hours (6 semesters) of math, including Algebra, to meet graduation requirements; must be taken in order listed starting with most appropriate course for demonstrated skills.

PRE-ALGEBRA (2 semesters) 9

5 credits per semester

This course includes the four basic operations and properties on the real numbers with emphasis on integers, solutions of one and two step equations, and creation of functional tables and graphing linear pairs.

ALGEBRA I (2 semesters) 9-10*

5 credits per semester

This course is designed to teach the students the techniques of Algebra and how to apply them. The topics that are involved will be sets, solution of equations and in equalities, polynomials (products and factoring), functions, relations, graphs, quadratic equations, reasoning and more. This class will provide instruction in basic algebra concepts.

GEOMETRY (2 semesters) 10-11

5 credits per semester

This course is the study of geometry basics which include reasoning and developing proofs, working with the properties of triangles/polygons, solving trig problems and finding area and volume.

ALGEBRA II (2 semesters) 11-12

5 credits per semester

This course will be continuation of Algebra but will be more advanced. Some of the topics that will be presented are properties of real numbers, linear open sentences, functions, factoring, polynomials, complex, irrational and rational numbers, quadratic equations, exponential functions, and trigonometric concepts.

PRE CALCULUS (2 semesters) 11-12

5 credits per semester

This course is an integrated body of selected aspects of algebra, trigonometry, and analytic geometry.

CALCULUS (2 semesters) 12

5 credits per semester

This course is the study of calculus basics which include working with trigonometry, finding limits, finding derivatives/anti-derivatives and solving related rate problems.

The following courses can be substituted for the upper level college prep math courses.

GENERAL MATH I (2 semesters) 11-12

5 credits per semester

This course is a review of essential Algebra 1 and Geometry concepts and an introduction to Algebra 2 concepts required for the state assessment.

BUSINESS MATH (2 semesters) 12

5 credits per semester

This course will focus on major financial issues business and individuals face in the real world. Among other topics, students will work with managing money and expenses and making positive financial and business decisions. **Pre-requisite: Algebra I & Geometry**

SCIENCE

Must complete 30 hours, including Biology, to meet graduation requirements:

EARTH SCIENCE (2 semesters) 9-12

5 credits per semester

Facts, concepts and principles of geology, astronomy, meteorology, oceanography, and space exploration, which are interrelated in the study of the natural environment of earth and space.

BIOLOGY (2 semesters) 10-12

5 credits per semester

The study of structure, functions, and processes of cells; classification, evolution; interrelationships; and environments of living organisms. Also includes the study of DNA and heredity.

Must choose one of the following four elective courses to meet graduation requirements; chemistry is strongly recommended for those planning to attend any college or university:

CHEMISTRY (2 semester) 11-12

5 credits per semester

The study of the composition, structure, and properties of matter and changes in matter, including the accompanying energy phenomena.

PRACTICAL SCIENCE (2 semesters) 11-12

5 credits per semester

Alternative science course designed for students who do not plan to continue with additional science courses in high school with a focus on chemistry and physics.

ANATOMY AND PHYSIOLOGY (2 semesters) 11-12

5 credits per semester

The branch of biology that relates to the function and structure of the human body; includes optional dissections.

PHYSICS (2 semesters) 11-12

5 credits per semester

The study of the branch of science that is concerned with matter and energy, including the study of phenomena associated with mechanics, heat, wave motion, sound, electricity, magnetism, light, and atomic and nuclear structure. **Pre-requisite: Algebra II**

Additional science electives:

ASTRONOMY (1 Semester) 11-12

5 credits per semester

Students will learn about stars, the universe and where humans and Earth fits into the big scheme of things.

BOTANY (1 semester) 11 – 12

5 credits per semester

Study of plants, plant structure and reproduction, and their classification; offered every third semester.

FORENSIC SCIENCE (1 semester) 11 – 12

5 credits per semester

Student will use biological, chemical and physics principles to learn about the science behind crime scene investigating.

ENVIRONMENTAL SCIENCE (1 semester) 11 – 12

5 credits per semester

Focus on environmental issues including soil and water quality, farming practices, and human population; offered every third semester.

SOCIAL STUDIES

Must complete the following courses to meet graduation requirements.

CIVICS (1 semester) 9

5 credits per semester

This course develops understanding and attitudes that encourage people to participate in civic affairs, and to understand their rights and responsibilities as citizens.

AMERICAN GOVERNMENT (1 semester) 9

5 credits per semester

The study of the process and structures by which people govern themselves at the local, state and national level

AMERICAN HISTORY (2 semesters) 10

5 credits per semester

The study of history of events, individual groups, institutions, artifacts, ideas, and other phenomena associated with the United States.

WORLD HISTORY (2 semesters) 11

5 credits per semester

The study of the history of events, individuals, groups, institutions, artifacts, ideas, and other phenomena associated with the entire world.

ECONOMICS (1 semester) 12

5 credits per semester

The study of people’s use of resources to satisfy their needs and wants.

Electives:

MODERN PROBLEMS (2nd semester) 10-12

5 credits per semester

The analysis of economic, social, political, cultural, and other issues which influence the economic, social, political, and cultural change and development of modern societies, specifically American society. The students work with the teacher to select law related topics for research, discussion and/or presentation.

HISTORICAL EVENTS (1 semester) 10-12

5 credits per semester

Course will feature 3 – 4 “mini” units on historical events. Examples: Civil War, Holocaust, WW I, WWII, Desert Storm, California Gold Rush, History of Football (or other sports).

WORLD GEOGRAPHY (1 semester) 9-12

5 credits per semester

This is a study of the major geographical areas of the world. We will look at the six major continents and their geographical features. We will study geography terms and learn how to use them with maps. Political boundaries will also be studied and how these are affected by geography.

FINE ARTS

Must complete 10 hours (2 semesters) in any Art or Music course to meet graduation requirements.

ART

Art I - Art Fundamentals (1 Semester) 9 – 12 grade

5 credits per semester

The students in this class will begin to build upon the skills achieved during their middle school years. The elements and principles will be expanded and more concentration and sketches will be done. This course is a pre-requisite for all upper level art courses.

Art II - Drawing (1st Semester) 10 – 12th grade

5 credits per semester

The students will work and build on their skills achieved during Art I. The work will be basically be in drawing mediums and stress the application of color, texture, and composition. **Prerequisite: Art I**

Art II – Painting (2nd Semester) 10-12th grade

5 credits per semester

The students will work and build on their skills achieved during Art I and II (1st semester). The work will be all in painting mediums and stress the application of color, texture, and composition. **Prerequisite: Art I**

Art III – Ceramics & Sculpture (1st Semester) 11- 12th grade

5 credits per semester

This course is designed for the advanced students that have passed courses 1 & 2. They will have specific projects introduced to them and they will add their own interpretation(s). The work will be based around various ceramic and sculpture techniques. **Prerequisite: Art I & II**

Art III – Textiles and Graphic Design (2nd Semester) 11 – 12th grade

5 credits per semester

This course is designed for the advanced students that have passed courses 1 & 2. They will have specific projects introduced to them and they will add their own interpretation(s). The work will be based around fabric manipulation, printmaking, and computer generated art. **Prerequisite: Art I & II**

Art IV – Yearbook (1st & 2nd semester) By special permission of teacher

5 credits per semester

This course is designed for the advanced students that have passed 1,2, & 3. They will have specific work to produce the yearbook and higher level independent projects are encouraged and will be available to the students. **Prerequisite: Art I, II, III**

MUSIC

INSTRUMENTAL MUSIC (2 semesters) 9-12

5 credits per semester

The study of instrumental music skills through solo, small group & large ensemble experiences. **Prerequisite: Jr High Band or Instructor permission**

VOCAL MUSIC (2 semesters) 9-12

5 credits per semester

Learning experiences designed for vocal repertoire and vocal skills through solo and group performance in larger ensembles of students.

MUSIC APPRECIATION (1 semester) 11-12

5 credits per semester

Study and exploration of American music styles. Examples: Jazz, Rock, Folk, ect... This course is open to any non-instrumental/vocal music student.

FOREIGN LANGUAGE

Must complete 5 hours (1 semester) to meet graduation requirements.

SPANISH I (2 semesters) 10-12

5 credits per semester

The students will be exposed to Spanish vocabulary, grammar, and culture. The vocabulary will involve that used in everyday situations. The grammar will include verbs, adjectives, pronouns etc. The culture will include studying landmarks, holidays, customs, etc.

SPANISH II (2 semesters) 10-12

5 credits per semester

This course should enable students to satisfy immediate needs using learned utterances and ask questions or make statements with reasonable accuracy only where short memorized utterances or formulae are involved. **Prerequisite: Spanish I**

SPANISH III (2 semesters) 11-12

5 credits per semester

This course should enable students to satisfy basic survival needs and minimum courtesy requirements, ask and answer simple questions, initiate and respond to simple statements and maintain simple direct conversations. **Prerequisite: Spanish I & II**

PHYSICAL EDUCATION AND HEALTH

Must complete 10 hours (2 semesters) of health and 10 hours (2 semesters) of physical education to meet graduation requirements.

HEALTH I (1 semester) 9-12

5 credits per semester

Learning activities concerning health to achieve desirable knowledge, understanding, attitudes and practices related to personal, family and community health issues.

HEALTH II (1 semester) 10-12

5 credits per semester

An advanced course with current health trends and issues as its central focus, with direction to, consumer health, family life education, health planning, health careers, and health services.

PHYSICAL EDUCATION 9 (1 semester) 9-12

5 credits per semester

A general course with emphasis on physical, social, emotional, and mental well being through the medium of physical activity.

PHYSICAL EDUCATION 10 (1 semester) 10-12

5 credits per semester

An introductory course in organized, sequential, and systematic application of the concepts and principles of the art and science of human movement through physical activities.

Electives:

PHYSICAL EDUCATION III (1 semester) 11-12

5 credits per semester

A specialized course with physical fitness and lifetime sports as its central focus primarily directed to the advantages of voluntary participation throughout life in a variety of activities.

PHYSICAL EDUCATION IV (1 semester) 11-12

5 credits per semester

An advanced course with an emphasis on the significant social, emotional, mental, and physical benefits of physical activity directed to the promotion of total physical well being with an emphasis on longevity and activity.

STRENGTH TRAINING/WEIGHT LIFTING (2 semesters) 11-12

5 credits per semester

An advanced physical education course with emphasis on building strength, speed, agility and power through weight lifting and conditioning exercises. Students will also gain an understanding of the body and ways to train to achieve specific fitness goals.

VOCATIONAL EDUCATION

Must complete 30 hours (6 semesters) to meet graduation requirements, with one semester of business communications and any computer literacy course. The remaining required credits can be chosen from among all the electives in these four areas of study.

BUSINESS

BUSINESS COMMUNICATION (1 semester) 12

5 credits per semester

Business Communications is designed to assist students in developing and refining job-related communication skills: technical writing, listening, speaking, problem solving, teamwork, and nonverbal skills. The course also includes an extensive career unit where students explore careers and prepare for the search and application process. They will also complete a mock job interview.

Electives:

ACCOUNTING I (2 semesters) 10-12

5 credits per semester

The study of the fundamental principles involved in the preparation and maintenance of financial records concerned with business management and operations.

ACCOUNTING II (2 semesters) 11-12

5 credits per semester

A second year accounting course designed to help students acquire additional knowledge of concepts, procedures and applications. Special emphasis is given to analyzing and interpreting financial information used in making managerial decisions. **Pre-requisite: Must have completed Accounting 1/B or higher.**

BUSINESS LAW (1 semester) 11-12

5 credits per semester

Business Law students will develop more in-depth view of the legal system. Any student interested in business or wants a more developed understanding of the way our legal system works should take this course. Principles and legal concepts used to make business decisions will be explored. Topics included in the courses but are not limited to: Law and Justice, Law of Contracts, Law of Property, Employment Law, Business Organizations, Law and Finance, and your rights as an individual. This course will be highly project based and interactive.

ENTREPRENEURSHIP (1 semester) 11-12

5 credits per semester

Entrepreneurship & Marketing helps students gain an understanding of the business principles necessary to start and operate a business. Any student interested in business or being their own boss should take this course. They will develop an awareness of the opportunities for small business ownership and develop the planning skills needed to open a small business. Students will explore the traits and characteristics of an entrepreneur and learn the basic concepts of marketing. The main projects in this class will include writing a business plan and developing a marketing campaign for the business.

PERSONAL FINANCE (1 semester) 9-12

5 credits per semester

This class will focus on students having a basic understanding of their finances and some basic business information. Units of study may include: financial planning, budgeting, investing, credit and debt, banking services, insurance, how careers effect finances, economic environment, and ethics.

MANAGEMENT & LEADERSHIP (1 semester) 11-12

5 credits per semester

Management and Leadership will help students develop themselves as leaders and learn the roles and functions of managers in various fields. Students should take this course if they are interested in any area of the business world or are aspiring to be a manager or entrepreneur in any field. Topics of the course include but are not limited to: Business Environment and Ownership, Management Functions and Leadership, Seven Habits of Highly Effective Teenagers/People, Communication and Information Systems, Production, Manufacturing, and Marketing, Financial Management, and Managing Human Resources. This course will be highly project based and interactive.

COMPUTER

COMPUTER 9 (1 quarter)

2.5 credits per semester

This class covers a variety of topics designed to help prepare students for a successful high school career. Topics include but are not limited to research paper formatting and career exploration.

Electives:

COMPUTER CONCEPTS (1 semester) 9

5 credits per semester

A study of the basic principles of microcomputer operation with particular emphasis on student knowledge and skills in word processing, database, spreadsheet, and telecommunications. A limited amount of time may be spent with programming, systems hardware and software, and new technologies.

COMPUTER APPLICATIONS (1 semester) 9-12

5 credits per semester

Computer Applications is designed to give students the skills to use functions needed in the workplace and schools. The course will include but is not limited to using word processing, spreadsheet, presentation, and publisher software to accomplish a variety of tasks and projects.

NETWORK SYSTEMS (2 Semesters) 11-12

5 credits per semester

This class has not been officially described. **Pre-requisite: By instructor permission only.**

WEB DESIGN (1 semester) 10-12

5 credits per semester

A course designed as a capstone course for students to create, design and produce interactive media products and services. The course emphasizes the development of digitally generated and/or computer-enhanced media. **Pre-Requisite: Computer Applications or Computer Concepts**

FAMILY AND CONSUMER SCIENCE

FAMILY AND CONSUMER SCIENCE 9 (1 quarter)

2.5 credits per quarter

This class provides basic information and practical skills on topics such as interpersonal and family relationships, time management and healthy living. Child development and caring for young children is explored. A unit on nutrition and basic food preparation is also included in the course.

Electives:

FAMILY AND CONSUMER SCIENCE (1 semester) 10-12

5 credits per quarter

This course focuses on ways to manage your life by identifying your values, short and long term goals and using the decision making process. Job skills are introduced along with qualities of a good employee and job searching skills. Students will learn how to fill out a job application and learn interview skills. Money management and being a wise consumer are a main component of this course. A unit on sewing, mending and clothing care is also included.

NUTRITION AND FOOD (1 semester) 9-12

5 credits per semester

This course studies the principles of nutrition and its relationship to individual health, study of the nutrients and their function in the body, the selection and preparation of food, table setting and manners, meal planning and management of the food dollar.

INTERIOR DESIGN (1 semester) 10-12

5 credits per semester

The study of physical, psychological, and social influences of housing on people. Emphasis on the varied types of housing; cost; exterior and interior design; selection, use and care of home furnishings and equipment; and use of available resources for achieving improved living space to meet individual and family needs.

CLOTHING AND TEXTILES (1 semester) 10-12

5 credits per semester

This course focuses on the social and psychological aspects of clothing, clothing trends and clothing construction.

PARENTING / CHILD DEVELOPMENT (1 semester) 11-12

5 credits per semester

Study concerned with parenting readiness, parenting decisions, and parenting practices.

ADULT LIVING (1 semester) 11-12

5 credits per semester

Comprehensive, practical, instruction focusing on mastery of effective independent living and survival skills with underlying themes of consumerism, decision making, and problem solving.

INDUSTRIAL TECHNOLOGY

INDUSTRIAL TECHNOLOGY 9 (1 quarter) 9

2.5 credits per quarter

The study of experiences involving activities such as experimenting, designing, constructing, evaluating, and using a variety tools, materials, and processes. The safe and proper use of the machine tools in the shop will be used to complete a project.

Electives:

COMPUTER AIDED DRAFTING 1 (CAD 1/1 semester) 9-12

5 credits per semester

This class is an introduction to the fundamental skills, processes, products, tools, materials and current software involved with technical drawing, drafting and design. Students will produce basic drawings and projects utilizing board fundamentals as well as Autodesk AutoCAD software. Areas of student include: measuring and scale reading, Computer Aided Drafting (CAD), drawing sheet layout, dimensioning and geometric constructions.

COMPUTER AIDED DRAFTING 2 (CAD 2/1 semester) 9-12

5 credits per semester

This is an advanced CAD course that studies three-dimensional (3D) CAD techniques and applications with emphasis on increasing productivity in the creation and editing of 3D models using AutoCAD software. The course includes an architectural project that will blend the previous learned material in CAD 1. This is equivalent to an entry-level architect/drafting class. **Pre-requisite: CAD 1**

COMPUTER AIDED DRAFTING 3 (CAD 3/1 semester) 10-12 **5 credits per semester**

CAD 3 is an independent study course focused on engineering. **Pre-requisite:** CAD 1 & 2

COMPUTER AIDED DRAFTING 4 (CAD 4/1 semester) 10-12 **5 credits per semester**

CAD 3 is an independent study course using RIVET. **Pre-requisite:** CAD 1 & 2

WELDING 1 (1 semester) 10-12 **5 credits per semester**

This class is the beginning class in metallurgy and welding technology. The students will be given instruction on the basics of SMAW (stick), GMAW (wire feed), and OFW (oxy-fuel). Time is spent both in the classroom and in the lab.

WELDING 2 (1 semester) 11-12 **5 credits per semester**

This class is an advanced class in welding and metallurgy. Students will complete advanced welding techniques using SMAW (stick), GMAW (wire-feed) and OFW (oxy-fuel) welding processes. Time is spent both in the classroom and in the lab. **Pre-requisite:** Welding 1

WOODS 1 (1 semester) 10-11 **5 credits per semester**

An introduction to woodworking and construction technology. This exploratory course is designed to provide instruction in the proper use and care of woodworking tools and power equipment. Students will us hand-on experiences in project design, production and finishing techniques. Students will also experience different phases in the construction industry. This course provides the student with the skills and knowledge to go on to the Woods 2 class.

WOODS 2 (2 semesters) 11-12 **5 credits per semester**

This more advanced skills course will provide students with hands on experiences with the processes, materials, equipment and technologies found in the furniture and cabinet industries. These experiences serve as a foundation for students following career paths in the wood manufacturing, construction, design and/or wood sales occupations, as well as those with a general interest. Students will be actively involved in hands-on processes producing furniture, cabinets and other construction products that can be taken home. Students will work on individual projects. **Pre-requisite:** Woods 1

CONSTRUCTION (2 Semesters) **5 credits per semester**

This class is a SENIOR ONLY class in the area of building construction and maintenance. Students will work cooperatively to build a structure of some type such as a shed, playhouse, etc. Time will be spent both in the classroom and the shop. **Pre-requisite:** Woods 1 & 2 or permission of instructor

OTHER GENERAL COURSES AVAILABLE:

2012-2013 CAREER ACADEMIES (Juniors/Seniors Only) **10 credits per semester + College credit**

- Agriculture Academy
- Business Management and Administration
- Education
- Health Sciences or Nursing Assistant
- Information Technology
- Welding or Industrial Manufacturing & Engineering

* Not all academies will be available in all areas of SE Nebraska- Dependent upon registration numbers, instructors and classroom availability.

COLLEGE COURSES (Seniors Only) **College Credits only**

- UNL Advanced Scholars—Must have 22 ACT Composite; online courses
- SCC Distance Learning or Online
- Other college partnerships are possible upon timely request

TEACHER AIDE—Junior/Seniors Only—By permission of principal

SCHOOL TO WORK RELEASE PROGRAM—Seniors Only—By permission of principal

Revised November 2012