NEWTON

SENIOR HIGH SCHOOL

ACADEMIC PLANNING HANDBOOK

2023-2024

Newton Senior High School

800 East Fourth Street South
Newton, Iowa 50208

www.newton.k12.ia.us

High School Office 641-792-5797 District Office 641-792-5809 Counseling Office 641-792-5797

Bill Peters, Principal
Ryan Rump, Activities Coordinator/Assistant Principal
Jim Beerends, Assistant Principal
Laura Sherratt, Dean of Students
Brenda Hodnett, LMC Director

Shelly Fitzgerald, Counselor A-G
Jessica Lavely, Counselor H-N
Cassia Nolin, Counselor O-Z
NHS Staff, Phil Calvin - Success

Newton Community School District Mission Statement

The Newton Community School District empowers every learner to achieve a lifetime of personal success.

Newton Senior High School Vision Statement

We are a collaborative and cohesive team that inspires and supports all learners in a culture of safety and acceptance.

Character first, last, and always.

Alphabetical Index

Non-Discrimination Policy

The Newton Community School District maintains that every student will have equal educational opportunities:

It is the policy of the Newton Community Schools not to illegally discriminate on the basis of race, color, creed, age (employment only), marital status, religion, national origin, gender, sexual orientation, gender identity, socioeconomic status (students/program only) or disability in its educational programs and its employment practices.

There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy, please contact the District's Equity Coordinator, Laura Selover, 1302 First Avenue West, Newton, Iowa 50208, Phone (641) 792-5809, or email seloverl@newtoncsd.org.

Student Due Process Rights

It shall be the policy of the Board of Education to provide for student due process rights. Board policies provide legitimate and reasonable channels through which policy interpretations may be quickly and equitably resolved at the lowest possible level. Student due process policies and regulations are available at any school office.

Response to Allegations of Abuse

The Newton Community School District will respond promptly to allegations of school employee abuse of students by investigating or arranging for full investigation of any allegation, and will do so in a reasonably prudent manner. The processing of a complaint or allegation will be handled confidentially to the maximum extent possible. The Newton Community School District has appointed the two Directors of Educational Services as Level I Investigators. Jessica Ferguson, Director of Special Programs, will investigate at the 7th through 12th grade level and can be reached at 1302 First Avenue West, Newton, Iowa 50208, (641) 792-5809. Each individual will serve as the alternate investigator to the other level.

Fees and Fee Waivers

It is the intent of Newton High School to provide equal academic and extracurricular opportunities to all students regardless of the associated costs. Applications and guidelines for Fee Waivers and Reductions and Free and Reduced Lunch are available during and following the August registration days. Students and parents should contact any counselor or administrator whenever they have a need for assistance in paying for any costs assessed by Newton High School. All inquiries will remain strictly confidential.

Student Records

There are two types of student records: Student Permanent Records and Student Temporary Records.

Student Permanent Records include:

1. Basic information (students' and parents' names and addresses, birth dates and places, etc.)
2. Academic transcript (includes grades, class rank, graduation date, grade level achieved, etc.)
3. Attendance record
4. Health record
5. Record of release of permanent record information

Student Temporary Records consists of all information not required to be in the Student Permanent Record and may include:

1. Family background information
2. Intelligence test scores
3. Aptitude test scores
4. Psychological evaluations
5. Honors and awards
6. Elementary and secondary achievement test scores
7. Special education records
8. Record of release of temporary record information

Student records are confidential. Your parent or guardian may see them and you may see them if you are eighteen years old. Information regarding the release of records and the right to challenge a record may be obtained from your counselor or principal. (Board policies 505.1 - 505.3)

Newton Community School District Graduation Requirements
(Board Policy 605.4)

Students must successfully complete the required courses of study prior to graduation as determined by the State Department of Education and the Board of Directors.

It shall be the responsibility of the superintendent or designee to ensure that students complete grades one through twelve and that high school students complete the required credits prior to graduation.

Credit Requirements

Diploma from:	Newton High School	West Academy
Curriculum Area		
Language Arts[1]	8	8
Mathematics	6	6
Science[2]	6	6
Social Studies[3]	6	6
Physical Education[4]	4	4
Health	1	1
Computer Skills	0	1
Careers	0	1
Personal Finance	0	1
Possible Selves	0	1
Elective Credits	21	5
Total Credits	52	40

Notes

1. Includes 2 credits in Applied English 9/ English1/Enhanced English 1. Two credits Applied English 10, English 2 or Enhanced English 2. Any combination of four Language Arts electives.
2. Includes two credits of Integrated Science, two credits Biology, and two credits Chemistry, applied, regular, enhanced or applicable courses.
3. Global Studies, Economics, U.S. History I, U.S. History II, and U.S. Government are required. One additional Social Studies credit must be earned from a Behavioral Studies Group.
4. Physical Education graduation credits will not be waived for early graduation.
5. Math credits from core courses that include Algebra, Geometry & Algebra II.

A student will not be allowed to graduate with fewer than the required credits without the approval of the Board of Directors. Special education students must meet individual graduation requirements as stated in their individual education plans. The Board of Directors shall have complete discretion to determine extraordinary circumstances. Newton Senior High School does not accept home school credits or credits from for profit schools.

The required courses of study will be reviewed by the Board of Directors every year.

Diploma Requirements

The Newton Community School District will offer its graduates diplomas from either Newton Senior High School or from West Academy High School if they have met the respective school's requirements.

To receive a Newton Senior High School diploma, students must meet the credit requirements listed on page 5 and be enrolled in and attend classes at Newton Senior High School carrying at least **5 credits during the student's last semester prior to graduation.**

To receive a West Academy High School diploma, students must meet the credit requirements listed on page 5 and have earned at least two credits from West Academy High School during the student's last semester prior to graduation.

Exceptions to the diploma enrollment requirements may be considered in cases of extreme hardship, serious medical conditions, or significant unusual circumstances. These exceptions must be agreed upon by both the principal of Newton Senior High School and the director of West Academy High School. Should the principal and director not agree, the superintendent or designee shall render a decision.

Here's how we recommend that you take your required courses:

Freshman	Sophomore	Junior	Senior
Physical Education	Physical Education	Physical Education	Physical Education
English	English	English Electives	English Electives
Integrated Science	Science Electives	Science Electives	U.S. Government
Mathematics	Mathematics	Mathematics	
Global Studies	Health	U.S. History I & II	

Social Studies Behavioral Studies Credit in grades 10, 11, or 12.
Economics must be taken as a Junior or Senior

Developing a Four-Year Plan is Important!

Selecting which courses to take during each of your high school years requires careful planning and thought. You want to match your interests and aptitudes with both the required and elective courses. You are encouraged to try courses in different areas to help discover new interests and broaden your preparation for whatever the future holds. Will you be prepared for employment or college after high school graduation? Will you be prepared to change careers multiple times as most people now do? As you plan your high school career, involve others in helping make course selections.

The DMACC Career Academy is a program open to juniors and seniors and prepares them for or offers the opportunity to explore one of eleven different careers. These programs offer numerous college credits and help serve as a springboard into the future for students who choose to pursue these careers. Below is a list of the programs available and their prerequisites. On the next page the individual courses which make up the DCA programs are listed. Students must meet the prerequisites and have their own transportation to the DMACC Newton campus. Classes will meet either from 7:30-9:30AM or 1:15-3:15PM. ATTENDANCE IS VITAL for success at the academy and may be a criterion considered for pre-registration.

DMACC CAREER ACADEMY PROGRAMS

Program	Pre-Req A	Pre-Req B
Automotive Collision	**Power Tech**	**Auto Tech**
Building Trades	**Woods**	**One Industrial Tech Elective**
Business Administration	**Three Business Credits**	
CNA/Adv. CNA (Nurse Aide)	**Health**	**Applied Biology or Biology**
Criminal Justice	**Four Science Credits**	**Sociology or Psychology**
Baking	**Foods 1**	**Foods 2**
Human Services	**Four Science Credits**	**Sociology or Psychology**
Health Occupations	**Health**	**Applied Biology or Biology**
Teacher Academy	**Child Development**	
Welding	**Metals**	

REGISTERING FOR THE DMACC CAREER ACADEMY

The DMACC Career Academy provides an opportunity for NHS students to explore possible future avenues or to get a head start in the respective vocational field. Students registering for these programs will complete a separate registration form for DMACC and will request the program when registering for course requests with Newton High School. To request the program with NHS, students will use the numbers (**in bold**) in the below chart.

All year-long programs earn five HIGH SCHOOL credits (2.5 credits for semester -long CNA program) and multiple college credits as indicated below. Program descriptions are included in the appropriate curriculum section of this book.

DMACC Career Academy Program	NHS Course Number	High School Course Credit	Total College Credit
Auto Collision Year 1	**0001, 0002**	5	15
Auto Collision Year 2	**0011, 0012**	5	12
Building Trades Year 1	**0005, 0006**	5	12
Building Trades Year 2	**0015, 0016**	5	9
Business Administration	**0803, 0804**	5	17
C.N.A. Training	**0303 (S1), 0304 (S2)**	2.5	6
Criminal Justice	**0601, 0602**	5	16
Baking	**0401, 0402**	5	14
Health Occupations	**0301, 0302**	5	14
Human Services	**0322**	2.5	9
Teacher Academy	**0311, 0312**	5	8
Welding Year 1	**0101, 0102**	5	11
Welding Year 2	**0103, 0104**	5	9

ART & COMMUNICATION CAREERS PATHWAYS

Description: The Art and Communication pathway will provide students with training and experience which will enable them to grasp the world of visual, performing, or electronic media art. A rigorous, standards-based curriculum will immerse students in their interests. The pathway will broaden the student's background guiding them to make informed choices as they move toward a decision to pursue higher education and/or future employment.

Training: Students may choose courses from three strands: Visual Arts, Publishing Arts, and Performing Arts. These strands provide pathways in fine arts, commercial art, creative publishing, journalistic publishing, music, speech, and theatre. Instruction will include current methods of technologies and internships. Job placement will be sought for focused students as well as those looking for a variety of experiences.

Occupations Examples:

High School Diploma	**Post High School Training**	**Four or more years of College**
Announcer	Actor	Architect
Audio-Visual Specialist	Animator	Advertising Creator
Camera Operator	Artist	Art Dealer
Choreographer	Book Illustrator	Art Director
Comedian	Broadcast Technician	Broadcast Journalist
Craft Artist	Communications Tech	Cinematographer
Darkroom Technician	Computer Graphic Artist	Commercial Designer
Floral Designer	Costume Designer	Composer
Musician	Disc Jockey	Copywriter
Singer	Engraver	Editor
Web Designer	Fashion Designer	Film Director/Producer
	Film Processor	Film Editor
	Jeweler	Graphic Designer
	Make-Up Artist	Illustrator
	Multimedia Designer	Industrial Designer
	Photographer	Multimedia Specialist
	Printing Press Operator	Music Critic
	Production Assistant	Newspaper Editor
	Recording Engineer	Painter
	Set Designer	Art, Drama, or Music Teacher
	Sound Technician	
	Textile Designer	

Suggested Newton High School Coursework:

Art Courses: Painting1, *Painting 2, Drawing 1, *Drawing 2, Pottery1, *Pottery 2, *Pottery 3, Mixed Media 1, *Mixed Media 2, Jewelry 1 & 2, Digital Art, Print Making

Language Art Courses: Intro Mass Media Communications, Yearbook, AP Writing, AP Literature, Spanish I/II, Spanish III/IV, French I/II, *French III/IV

Instrumental: Band, Music Theory

Vocal: Chamber Choir, Treble Choir, Bass Chorale

***Denotes courses with college credit available.**

BUSINESS CAREERS PATHWAYS

Description: The purpose of the Business pathway is to provide students with curriculum and instructional activities to all the students to preview careers in the fields of business and technology. Students will engage in a rigorous, standards based curriculum that is supplemented with classroom experiences specific to the Business pathway.

Training: Students will be able to choose from three business pathways: Finance, Marketing, and Information Processing. Each pathway may offer the opportunity for mentorship, job shadowing, internships, and industry specific certification.

Occupations Examples:

High School Diploma	**Post High School Training**	**Four or more years of College**
Account Collector	Accounting Clerk	Account Executive
Administrative Assistant	Advertising Sales Agent	Accountant
Billing Clerk	Auditing Clerk	Actuary
Bank Teller	Claims Adjuster	Advertising Manager
Bookkeeper	Clerical Supervisor	Auditor
Cashier	Court Reporter	Business Teacher
Computer Operator	Credit Analyst	Chief Executive Officer
Data Entry Operator	Customer Service Rep	Computer Programmer
File Clerk	Digital Marketing	Credit Manager
General Office Clerk	Hotel Manager	Financial Planner
Telemarketer	Insurance Agent	Human Resources Manager
	Loan Processor	Manufacturing Sales Rep
	Legal Secretary	Marketing Manager
	Office Manager	Market Research Analyst
	Paralegal	Operations Analyst
	Real Estate Agent	Purchasing Agent
	Retail Buyer	Systems Analyst
	Sales Representative	Tax Examiner
		Web Design Manager

Suggested Newton High School Coursework:

Business Courses: Intro to Business, Keyboarding, *Computer Applications, Personal Finance, Marketing, *Accounting, Management, Business Law, *Entrepreneur/DECA, Work Experience, Internships, *FLEDGE Innovator

DMACC Career Academy: *Business Administration

*** Denotes courses with college credit available.**

HEALTH CAREERS PATHWAYS

Description: The purpose of the health career pathway is to provide students with curriculum and instructional activities that allow students to preview the healthcare professions. Students will engage in a rigorous, standards-based curriculum that is supplemented with classroom and clinical experiences specific to the health career pathway.

Training: The health career pathway focuses on a combination of academic and clinical hands-on experiences to prepare the student for entry level positions in the healthcare profession. Students can obtain clinical experience in a job shadowing or extended laboratory setting.

Occupations Examples:

High School Diploma	**Post High School Training**	**Four or more years of College**
Dialysis Technician	Dental Hygienist	Athletic Trainer
EEG Technician	Dental Lab Tech	Child Psychologist
EKG Technician	Funeral Director	Clinical Psychologist
Home Health Aide	Health Inspector	Dentist
Nurse Aide	Massage Therapist	Dietician
Physical Therapy Aide	Medical Lab Tech	Geneticist
	Pharmacist Assistant	Health Administrator
	Radiologic Tech	Industrial Psychologist
	Respiratory Therapist	Medical Examiner
	Sonographer	Microbiologist
	Surgical Technician	Nurse
	Volunteer Services Coordinator	Occupational Therapist
		Optometrist
		Pharmacist
		Physical Therapist
		Physician
		Psychiatrist
		Speech Pathologist
		Veterinarian
		Zoologist

Suggested Newton High School Coursework:

Health, Biology I, AP Biology, Chemistry, AP Chemistry, Physics I/II, Athletic Strength and Conditioning, Advanced Athletic Strength and Conditioning, Child Development, Psychology, *College Prep Psychology, Principles of Biomedical Science, Human Body Systems

DMACC Courses: *CAN Training, *Health Occupations

***Denotes courses with college credit available**

HUMAN SERVICES CAREERS PATHWAYS

Description: The Human Services pathway is divided into four separate areas of study. They are Government and Law, Education, Personal and Social Services, and Hospitality and Recreation. These four distinct areas make the Human Services pathways the broadest of the five at Newton High School. While studying in the Human Services pathways, students will be preparing for both post-secondary education and a broad career field.

Training: The diversity of careers within the Human Services pathway leads to a wide-range of training at Newton High School and beyond. We currently offer a work-study program that prepares students for work and then examines the student's performance on the job. A vocational program, HERO, currently exists which allows students to have hands on training in the field of education. As this program develops, opportunities in job-shadowing, mentorship, and internships will increase.

Occupations Examples:

High School Diploma	**Post High School Training**	**Four or more years of College**
Aerobics Instructor	Baker	Attorney
Armed Services Career	Barber	City Manager
Child Care Worker	Cosmetologist	Civil Engineer
Dog Groomer	Crime Lab Technician	College Professor
Dry Cleaning Operator	Custom Tailor	Criminologist
Fashion Consultant	Fashion Designer	Executive Chef
Home Health Aide	Firefighter	Family Therapist
Library Assistant	Flight Attendant	FBI Agent
Municipal Worker	Funeral Director	Financial Planner
Personal Shopper	Health Inspector	Food Service Manager
Postal Service Worker	Immigration Officer	Insurance Agent
Security Guard	Massage Therapist	Interior Designer
Utility Worker	Personal Trainer	Judge
	Police Officer	Librarian
	Real Estate Agent	Military Officer
	Skin Care Specialist	Museum Curator
	Real Estate Agent	Park Director
	Sous-Chef	Park Ranger
	Teacher's Aide	Postmaster
	Volunteer Coordinator	Recreational Therapist
		Religious Leader
		School Counselor
		School Psychologist
		School Superintendent
		Social Worker
		Teacher
		Urban Planner
		Warden
		Welfare Director

Suggested Newton High School Coursework:

Career/Foods 9, Foods 1/2, The Sewing Connection, Project Runway 1/2, Project Runway: Fashion Housing and Interior Design, Child Development, Parenting Skills, Sociology, Psychology, *College Prep Psychology, Social Psychology, Adult Living, *Early Childhood Occupations, *ECO Work Experience, Public Speaking

DMACC Career Academy: *Criminal Justice, *Teacher Academy, L*Baking, Human Services

***Denotes course with college credit available.**

SCIENCE, TECHNOLOGY, ENGINEERING, ART, AND MATHEMATICS CAREERS PATHWAYS

Description: The Engineering and Technology pathway is divided into three strands. Career pathways within these strands are grouped by the knowledge and skills required of the occupations related to each strand. Individual pathways include career instruction providing real life knowledge and experiences that will help you in determining possible career interests.

Training: Engineering and Technology education can be obtained in technical colleges and institutes, two-year colleges, and four-year colleges and universities. Academic foundations for engineering and technology are laid in high school and in course work as well as through participation in engineering and technology student organizations and student competitions.

Occupations Examples:

High School Diploma	**Post High School Training**	**Four or more years of College**
Air Traffic Controller	Ambulance Driver	Aeronautical Engineer
Brick Mason	Auto Body Repairer	Aerospace Engineer
Carpenter	Auto Mechanic	Agricultural Engineer
Carpet Installer	Biomedical Engineering Technician	Airline Pilot
Delivery Truck Driver	Chemical Engineer Technician	Airport Manager
Drafter	Computer Systems Analyst	Architect
Dry Wall Installer	Diesel Mechanic	Architectural Engineer
Freight Handler	Dispatcher	Biomedical Engineer
Heating and Cooling Mechanic	Laser Technician	Chemical Engineer
Iron Worker	Loading Inspector	Civil Engineer
Locksmith	Mechanical Engineering Technician	Computer Forensic Investigator
Machine Operator	Merchant Marine Radio Operator	Computer Network Engineer
Mechanic	Metal Engineering Technician	Computer Programmer
Quality Control Assistant	Operations Manager	Computer Systems Analyst
Plumber	Production Manager	Database Administrator
Radon Tester	Radon Technician	Data Modeler
Surveyor	Railroad Technician	Electrical Engineer
Tile Layer		Environmental Engineer
Welder		Flight Engineer
		Geospatial Engineer
		Health IT Specialist
		IT Consultant
		IT Manager
		Mechanical Engineer
		Mobile Application Developer
		Nuclear Engineer
		Software Engineer
		Transportation Engineer
		Web Developer

Suggested Newton High School Coursework:

Intro to Woodworking, Intro to Manufacturing, Intro to Transportation, Engineering Drafting 1 & 2, Architectural Drafting, Metals, Advanced Metals, Power Technology, Auto Upkeep, Automotive Technology, Home Repair, General Woodworking, Advanced Woodworking, Pre-Calculus, *AP Calculus, Drawing 1, *Drawing 2, Chemistry, AP Chemistry, Physics I/II

DMACC Career Academy: *Welding, *Auto Collision, *Building Trades

***Denotes courses with college credit available.**

Building Your Future

ISU UI UNI

Preparing for Academic Success at Iowa's Regent Universities

Building your future is like building a house. Not somebody else's house, your own. You need to both envision your dream house and create blueprints for building it.

High school is a time of choices. In fact, **some of the most important choices you'll make in life are happening right now** as you sign up for your high school courses.

TAKE THE CHALLENGE

Be ambitious in your planning. **Prepare yourself not only to survive in college but to thrive. The best preparation for college is to take not the minimum courses but the optimum courses.** The experience of all three State universities points to one definite conclusion: students who succeed best in college are those who build the best foundation in high school. Even if you're not currently considering attending college, you will still benefit from these strong foundations since all jobs require a much stronger academic preparation than they did a few years ago.

DRAFT YOUR BLUEPRINT

1. **Lay your foundation carefully and wisely.** It's tempting to choose a course in which you know you could get a good grade, rather than one that might be difficult for you. But a challenging course will help you when you get to college. During high school you need to develop strong skills in reading, writing, speaking, listening, and reasoning. Courses that will help you do so are English/language arts, mathematics, sciences with laboratory experience, social studies, and foreign language. Your counselor can help you make the right choices. **Taking an ambitious course load in high school means you'll be starting college with an advantage.**
2. **Learning to love learning.** Every class you take is an opportunity to find something you care about, explore your intellectual horizons, and pursue your interests. **View each class as an opportunity and a challenge.**
3. **Develop a framework of study and work habits.** Practice study strategies that have been shown to work in college: listening and note-taking skills, distributing study time rather than cramming, revisiting, revising, and reflecting. Make every effort to understand the concepts, theories, philosophies, and relationships you're learning. **Students who come to college with proven work and study patterns have a great advantage over students who need to establish them while they're coping with all the new experiences of being a college freshman.**
4. **Experience and explore. While you are in high school, consider taking courses that will allow you to explore a future career, cultivate a talent in the performing or visual arts, or teach you about a scientific field you've known nothing about until now.** Participate in extracurricular activities. These initiatives are valued in college because they broaden your horizons, enhance your total educational experience, and increase your interaction with other people. Combined with a strong academic program, these activities should make you a confident and successful college student. **Taking full advantage of your senior year is a key to both meeting the requirements for admission and taking advantage of courses and experiences that allow you to explore your interests and develop your talents.**

FOR MORE INFORMATION

Office of Admissions
Iowa State University
100 Enrollment Services Center
Ames, IA 50011-2011
1-515-294-5836
Toll free 1-800-262-3810
www.iastate.edu
admissions@iastate.edu

Office of Admissions
The University of Iowa
107 Calvin Hall
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1-319-335-3847
Toll free 1-800-553-4692
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Office of Admissions
University of Northern Iowa
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Building Your Future: *Preparing for Academic Success at Iowa's Regent Universities*

	Minimum *Requirements for Admission*			***Optimum*** *Recommendations for Success*
	Iowa State University	**The University of Iowa**	**University of Northern Iowa**	
FOREIGN LANGUAGE	Two years of a single foreign language for admission to the **College of Liberal Arts and Sciences.** • Foreign language courses are not required for admission to the **Colleges of Agriculture, Business, Design, Education, Engineering**, and **Family and Consumer Sciences**.	Two years of a single foreign language.	Foreign language courses are not required for admission. However, two years of foreign language in high school with a C- or above in the last term will meet the University graduation requirement.	Four years of a single foreign language. By taking foreign language during all four years of high school, you'll go beyond the basic skills and begin to use the language and reinforce your fluency.
ENGLISH / LANGUAGE ARTS	Four years of English/language arts emphasizing writing, speaking, reading, as well as an understanding and appreciation of literature.	Four years, with an emphasis on the analysis and interpretation of literature, composition, and speech.	Four years, including one year of composition; also may include one year of speech, communication, or journalism.	Four years of English courses with an emphasis on the communication skills of writing, reading, speaking, and listening and the analysis and interpretation of literature. In addition, courses such as journalism and media literacy will be valuable. Extracurricular activities such as debate, speech contest, newspaper, and yearbook will further develop essential competencies.
MATH	Three years, including one year each of algebra, geometry, and advanced algebra.	Three years, including two years of algebra and one year of geometry, for admission to the **College of Liberal Arts and Sciences.** • Four years, 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**.	Three years, including equivalent of algebra, geometry, and advanced algebra.	Four years, one in every year of high school. While advanced courses like calculus and statistics are good, it's more important that you gain a complete understanding of advanced algebra and trigonometry.
NATURAL SCIENCE	Three years, including one year each from any two of the following: biology, chemistry, and physics.	Three years, including one year each from any two of the following: biology, chemistry, and physics for admission to the **College of Liberal Arts and Sciences.** • Three years, including at least one year of chemistry and one year of physics, for admission to the **College of Engineering**.	Three years, including courses in general science, biology, chemistry, earth science, or physics; laboratory experience highly recommended.	Four years, one in each year of high school. To be really well prepared for college, take at least one year each of biology, chemistry, and physics. These can be taken in any order and may be taught productively in either a separate or integrated fashion, depending on your school's offerings.
SOCIAL STUDIES	Two years for admission to the **Colleges of Agriculture, Business, Design, Education, Engineering**, and **Family and Consumer Sciences**. • Three years for admission to the **College of Liberal Arts and Sciences**.	Three years, with U.S. history and world history recommended, for admission to the **College of Liberal Arts and Sciences.** • Two years, with U.S. and world history recommended, for admission to the **College of Engineering**.	Three years, including courses in anthropology, economics, geography, government, history, psychology, or sociology.	Three years is essential, but four is better. Take at least one year of U.S. history and one year of world history. Additional courses in history are recommended, if available. Beyond that, courses such as economics, political science, psychology, sociology, and anthropology provide an important understanding of our political, social, and economic institutions.
OTHER COURSES	Specific elective courses are not required for admission to Iowa State University.	Specific elective courses are not required for admission to The University of Iowa.	Two years of additional courses from the required subject areas, foreign languages, or fine arts.	Explore! Courses in fine arts, performing arts, computers, or technology will help round out your high school experience. Perhaps your future field of concentration or career will lie in one of those areas. Follow your interests, your talents, and the strengths of your school. And choose courses with high academic standards.

Scheduling Guidelines

How does the scheduling process work?

You will start by having the opportunity to hear about the course options available to you. Teachers and counselors will give you information about courses and help you update your four-year academic plan on Infinite Campus. They will help you make choices but you also should talk to parents, look at college admission requirements, and research career choices to better map your course choices. Incoming freshmen will also have a chance to learn more about courses during 8th Grade Night. The more information you have, the better the decision you can make. Here's an outline of what happens:

February	Receive Academic Planning Handbook, attend course information session, talk to counselor, input course selections into Academic Planner (four year plan) in Infinite Campus.
March	Administrators, counselors, and teacher work to create master schedule based on student course requests.
April	Counselors will meet with students to resolve scheduling conflict if necessary.
May	Schedule will be made available.
August	Deadline for requesting first semester schedule changes, register for school, pay fees, and receive final schedule.
December	Deadline for requesting second semester schedule changes.

I have a special need for my program of studies. What can I do?

You might be in a situation where you can't get all of the courses you need, where you want to study a course not offered in our curriculum, where you would like to take a college course along with your high school classes or where you need to make up a credit from a past year and just don't have room in your schedule. A number of options are available to help meet your needs. Your counselors can help you. They have more specific guidelines and requirements for each program. Some of the possibilities include:

Independent Study Allows you to explore a subject or area of interest in depth under the direction of a faculty member or a department. Occasionally some teachers allow independent study to avoid scheduling conflicts.

Homebound Instruction Home/hospital instruction may be provided when a licensed physician certifies that you must be out of school for an extended period of time for medical reasons. Your parents should notify a counselor immediately if you are hospitalized or homebound.

Correspondence Courses A number of colleges have programs that offer high school level courses that are approved for credit and that may be taken by mail or by minimal attendance. Correspondence courses are approved most frequently when a student needs a non-required course to meet graduation requirements.

West Academy Alternative High School West Academy is an alternative high school for students of Jasper County. Students at risk of dropping out or those behind in credits may be considered for a shared program of courses at NHS and at West Academy. In order to enroll at West Academy, students must have completed two semesters of high. West Academy classes may not be used to accelerate the date of graduation. Students who attend West Academy may qualify for either a West Academy diploma or a Newton High School diploma, students must attend their final semester at Newton High School to qualify for an NHS diploma. See Graduation Requirements (Board Policy 605.4) on page 5.

College Classes Juniors, seniors, and students identified as talented and gifted may take select courses at Newton DMACC, any community college, or most four-year colleges in Iowa and receive both high school and college credit for them. On-Campus or online DMACC Classes or PSEO courses shall be part of a student's cumulative GPA and will be reported in the term that it is completed. In addition, up to $250 of the tuition and fees for the courses will be paid for by the Newton Community School District if the course is taken during the school year, if the course is not comparable to one already offered at NHS, and if your college course load does not exceed the number of credits for a full time student. Senior students must be enrolled in a minimum of four semester credits offered in the NHS Academic Planning Handbook. Summer classes are also an option, but at your own expense. Adult education classes are not included. See your counselor for additional details under the Postsecondary Enrollment Options Act. (Board Policy 602.16)

DMACC Career Academy Juniors and seniors may enroll in the DMACC Career Academy (see page 7). The academy includes programs which require a full-year commitment from students and may earn for the student up to 20 credits in a particular vocational program. DMACC Career Academy classes shall be part of the student's overall GPA and will be reported in the term that it is completed. Student eligibility for the academy is indicated in the following section.

Students must demonstrate through IA Assessment test scores proficiency in math, reading, and/or science or be deemed proficient through an alternative assessment before enrolling in the career academy. The alternative assessment process will consist of three components:

1. Academic Standing: All eligible students must be in good academic standing as determined by the home district and building principal.
2. Graduation Progress: All eligible students must be on pace to graduate with class, as determined by home district and building principal.
3. Recommendation: All eligible students must be recommended by building principal.

Any student not meeting proficiency requirements through IA Assessment scores in math, reading, and/or science but who meets both academic standards outlined in (1) and (2) above, and who is recommended by the building principal, will be allowed to enroll in the Career Academy and/or concurrent classes.

Summer Policy Newton Senior High School recognizes students may seek credit through online programs during the summer. Students seeking to earn credit due to deficiency in graduation credit or to enrich their studies will be acknowledged for their efforts. Online summer coursework will be honored if it meets one of the two criteria below:

1. The course is a previously failed course.
2. The course is a course not offered by Newton Senior High School.

Students will seek approval for coursework prior to enrollment.

May I change my schedule?

The answer to that question depends most upon when you ask and the reason you are asking. With parent, counselor and sometimes teacher permission you can make almost any course change through early May. Until this time, the actual schedule of teachers and periods hasn't been finalized. When that actual schedule is determined, changes will be harder and more complicated to make. If you would like a change for first semester, you must make your request to your counselor or the principal prior to classes commencing. Changes for second semester have an early January deadline. Changing to a different teacher will be permitted only if classes would become better balanced (you are moving from a larger class to a smaller class in all cases).

Some approved reasons for changing a schedule include:

- Special Education program change
- Making up failed classes
- Computer errors
- Changes in career or college plans
- Adding a class to an open Block or Half Block
- Changing to a more appropriate level of a Math, English or Science course
- Unique situations that jeopardize your graduation
- Taking classes at other colleges or schools at the same time

May I repeat a class that I've already taken?

You may repeat a course which you have taken in order to improve your skills or knowledge. A course in which you received a failing grade may be retaken at any time. A course in which you received a passing grade may be repeated by the end of the next school year. Only three courses in which a passing grade was earned may be repeated. When a course which you passed is repeated, both grades will appear on your transcript; however, only the repeat grade will be used in grade point average calculations, and no duplicate credit will be awarded. No previously earned credit will be taken away as a result of failing a repeated course. (Board Policy 605.1)

May I just drop an extra class?
Yes and no. You were expected to put a lot of thought and preparation in selecting your courses and the school did the same in developing the master schedule of classes. Your choices determined the master schedule and in some cases determined other students might not get the combination of classes they requested. After the change deadlines, you must honestly try each of your BLOCK classes for at least three weeks and your HALF BLOCK classes for at least six weeks. If you still want to drop the class at the end of that time, if the course is not required for graduation, and if your parents agree, you may do so and be assigned a study hall without receiving an "F" grade. The three- and six-week drop policy gives you a no risk opportunity to try an extra class. To drop a class, you must complete a drop form available in the counseling office. If you drop the class or are dropped from a class before or after those times, you will receive an "F" grade and be assigned to a study hall.

What is the minimum credit load? May I have study hall time?
The minimum credit load is 7 credits per semester and 3 contact blocks per term for Grades 9-11, and 5 credits per semester and 2 contact blocks per term for Grade 12. (A lesser load requirement of 4 credits per semester will be allowed for students in Early Childhood Occupations to compensate for the discrepancy between job site contact time and credits.) A student must average 6.5 credits per semester in order to earn the required 52 credits in 4 years. During non-class time, you will be assigned to a study hall. Study hall time may be spent using the Library Media Center, meeting with teachers and counselors, taking music lessons, participating in a support group, or volunteering to work in school offices as well as for completing class work. Study hall time can be valuable, especially for students involved in activities, work, or taking a class with a lot of homework. Freshmen, sophomores, and juniors must also stay at school during the lunch period.

May I take a class for no credit?
Taking a class for no credit is called auditing. The course will be listed on your transcript with an "AU" grade, and you will not receive credit towards graduation or points toward your grade point average. If you audit a class, you will be expected to attend regularly, do all of the work and take all of the tests just as if you were taking the class for credit. Any non-required class may be taken on audit basis if seats are available, your credit load remains at 6 credits or more for that semester and you request audit status during the first ten school days of the class. Failure to fulfill these conditions could lead to a failing grade in the course.

Do Seniors have special privileges?
You earn the senior privilege of open campus based upon your previous attendance and academic performance. The minimum expectation is passing all of your classes and having fewer than 12 absences during the second semester of your junior year. Your open campus privilege will continue so long as you attend classes regularly, maintain passing grades, and behave appropriately. Seniors who have not earned open campus privileges or who lose them once earned will be reassigned to a study hall for each open period of the school day.

May I graduate early?
Yes, you may if it is really necessary. We think a full four-year program is best, but if you meet all the credit requirements, have a good reason, and parent permission you may graduate up to one year early. You must apply in advance of your normal graduation date. Your counselor has the required application forms. Early graduates may participate in graduation exercises. (Board policy 605.5)

Where can I get a transcript?
Transcripts are copies of official school academic records that are frequently requested by colleges, scholarship committees and employers to document a student's performance. The high school registrar will prepare and mail transcripts for you upon request. The first application/transcript will be mailed free of charge. Each additional transcript will cost you $1.00. The high school registrar keeps track of the number and destination of each transcript mailed.

Grade Reporting Procedures

How do I know what is expected?
On the first day of class you will receive a first-day handout from each of your teachers outlining what you can expect from the class. The handout will include the minimum course requirements which you must meet to earn credit in the course. Most of the teachers of the same course will use the same requirements. When you read the handout, you should be able to find:

- The number and types of major projects
- The number of major tests
- The kinds of activities in which you will be expected to actively participate
- The amount and type of homework expected
- The grading practices for homework, projects, class participation and tests
- How your term grades will be determined
- Any additional materials which you will need for the class
- The availability of extra help

When are Report Cards Issued?
You will receive a report card four times a year at the end of each term (quarter). The report card will list all of the year's courses in which you are enrolled, much like a transcript. The courses which you have taken or are currently taking will have grades recorded. You will earn credit for block courses at the end of each term and half block courses at the end of each semester (Term 2 and Term 4). As a result, your Term 1 and Term 3 report cards may include some final and some midcourse grades. Your Term 2 and Term 4 Report Cards will only include final grades.

Wh*at about Mid-Term Progress Reports and Parent-Teacher Conferences?*
Mid-term progress reports will be issued approximately halfway through each term. You will be given a progress report from each class, and then be expected to take one copy to your parent or guardian and freshmen will be expected to return a signed copy to their respective teachers. If your progress in the class changes significantly, other progress reports may be issued by teachers or requested by you or your parents. The mid-term progress reports will become especially important in a block schedule because Term grades are final for block courses and become part of your record. Mid-term progress report grades do not become part of your permanent record.

Parent-Teacher conferences will be scheduled once each term. Additional conferences may always be arranged by contacting the teacher or counselor.

What letter grades are used? What else will be on my Report Card?
The following letter grades are used in the reporting system:

Used in calculating Grade Point Averages

A	Excellent	B	Very Good	C	Average
D	Passing	F	Failing, No Credit		

Not used in calculating Grade Point Averages

EX	Excused, No Credit	AU	Audit, No Credit	W	Withdrawn
P	Passing, Credit	NC	Not Passing, No Credit	CR	Credit
I	Incomplete				

Your report cards will also include comments regarding your performance, class and school absences, term and cumulative grade point averages, and current class rank. Only your final term grades and absences become part of your permanent record. Your class rank and cumulative grade point average will be recalculated at the end of each term.

How is my Grade Point Average figured?

Your grade point average is one of your most important records maintained at NHS. Your cumulative GPA also determines your class rank which is recalculated at the end of each term using all of the courses which you have completed. Grades are awarded mark points: an A is worth four mark points, a B is worth three mark points, a C is worth two, a D is worth one and an F is worth none. Plus and minus grades do not change the number of mark points associated with the letter grade. Each course carries a certain amount of potential credits. Most classes are either one or two credits depending upon the number of hours of class time. Grade points are determined by multiplying the number of potential credits in the course times the mark points. Your grade point average is determined by adding the total grade points and dividing by the total potential credits. Your potential credits become earned credits and count toward graduation when you successfully complete the course. Here is an example of a student's first semester grades showing both block and half block courses:

First Semester Grade Reporting for Buzz Abernathy

		Term 1				Term 2				Semester Summary		
Sched Type	Course	Grade	Grade Points	Potential Credits	Earned Credits	Grade	Grade Points	Potential Credits	Earned Credits	Grade Points	Potential Credits	Earned Credits
HB2	English I	**B**	3	1	na	**C+**	2	1	1	2	1	1
B2	Algebra I	**A-**	4	1	1	**B-**	3	1	1	7	2	2
B1	PE 9-10					**A**	4	1	1	4	1	1
B2	Biology	**B+**	3	1	1	**A-**	4	1	1	7	2	2
HB2	Band	**C**	2	1	na	**B**	3	1	1	3	1	1
	Totals		**12**	**4**	**2**		**16**	**5**	**5**	**23**	**7**	**7**
		GPA = 3.000 (12 / 4)				GPA = 3.200 (16 / 5)				GPA = 3.280 (23 / 7)		
Grades Used For:		Honor Rolls Eligibility Senior Privileges				Honor Rolls Eligibility Senior Privileges				Academic Letters Academic Improvement		

Notice that the grades for the block classes earn credits each term, but those for the half block classes (English I and Band in the example) earn credit only at the end of Term 2. Buzz is taking 7 credits this semester, and all of those credits are used in determining such awards as Academic Letters. His cumulative grade point average and class rank (not shown) are recalculated at the end of both Term 1 and Term 2. Only Final Grades are used in determining Cumulative Grade Point Average and Class Rank.

What recognition is available to students based upon their good grades?

Honor Rolls are determined at the end of each term using all of the grades for that term. To be on the Honor Roll, you must be taking the minimum number of credits with no "I" or "F" grades. The 'A' Honor Roll recognizes students with a G.P.A. of 3.667 or higher and the 'B' Honor Roll recognizes students with a G.P.A. of at least 3.000 but less than 3.667 If you make the Honor Roll, you will have your name posted at school and published in the *Newton Daily News*.

Academic Letters are awarded to students who consistently demonstrate high academic achievement in the regular education curriculum. To qualify for an Academic Letter, you must earn a minimum semester grade point average of 3.333 for two consecutive semesters. During each of those semesters, you must carry the minimum academic load at Newton Senior High School. Upon initial qualification, an Academic Letter is awarded during Advisor/Advisee room. For each following semester in which you earn a 3.333 GPA, you will receive a gold lamp to place on your letter. If you fall below a 3.333 grade point average for a semester, you may requalify by achieving that grade point for two consecutive semesters.

Academic Achievement Pins are presented to students who improve their semester grade point average by at least .25 over the previous semester. This is an incentive for improvement and does not require a minimum grade point average to qualify. Students receiving Academic Letters are not eligible for Academic Achievement Pins.

National Honor Society ranks as one of the oldest and most prestigious national organizations for high school students. The purpose of this organization is to recognize enthusiasm for scholarship, service, leadership, and character. Student membership in the National Honor Society is based on achieving recognition in these four distinguishing traits. Membership is further restricted to students in the junior and senior classes who have cumulative scholastic grade averages of at least 3.667.

The faculty receives a list of those juniors and seniors with the 3.667 grade point average and helps determine whether a student is in good standing. If so, the student is requested to submit a summary of all activities, service projects, and volunteer work that he/she has been involved in during his/her high school years. Meeting that criteria then determines who is invited into the National Honor Society.

An induction ceremony is held in the spring to recognize new members and their parents and to present the National Honor Society pins. This reception is planned and conducted by seniors who were inducted into the National Honor Society when they were juniors.

Commencement Honors are determined by students' cumulative grade point average **at the end of Term 3** of the school year of graduation. Only final grades count towards the cumulative GPA. Seniors in regular education courses who have a cumulative GPA of 3.000 - 3.666 will graduate with "Honors", those with a GPA of 3.667 - 3.899 with "High Honors" and those with a GPA of 3.900 - 4.000 with "Highest Honors". The student or students with the highest-grade point average will be designated Valedictorian. If there is only one Valedictorian, the student or students with the next highest GPA will be designated as Salutatorian. The Valedictorian and Salutatorian awards are based upon grades earned through all semesters of attendance.

Extracurricular Activities

Participation in extracurricular activities helps you develop leadership qualities, make new friends, learn leisure time activities, pursue special interests, and just have fun.

You are encouraged to participate in one or more of the activities. However, since the primary purpose of high school is to promote scholastic achievement, you should select activities wisely and budget your time effectively. There are activities that provide for (1) an extension of interests aroused in the classroom, (2) an opportunity to develop special interests and abilities, and (3) social and service activities in the school and community.

In order to be eligible for athletics and/or public appearing events, you must have passed all credited subjects the previous term. Any loss of eligibility will be reviewed at any time after four weeks to determine the status for the balance of the term. If you participate in athletics, you must have an annual physical examination and be covered by health and accident insurance (see the Student Handbook for additional information). Some of the possible activities are:

Activities/Clubs

All State Music
Art Club
Battle of the Books
Book Club
Chess & Chocolate Milk
Democracy Club
Dungeons & Dragons
Empower Tanzania Club
FCA (Fellowship of Christian Athletes)
FFA (Future Farmer of America)
GSA (Gender Sexuality Alliance)
International Club
IT Club (Newbotics)
Key Club
Mat Maids
Math Club
Model UN
P7 Bible Club
Pacesetters
Plays and Musicals
Quiz Bowl
Silver Cord
Spanish Club
Special Olympics
Speech and Drama Contests
State Contests
SAAC (Student Athletic Advisory Council)
Student Council
Thespians (Drama Club)
Trap Team
Travel Club

Athletics

Boys' Baseball
Boys' Basketball
Boys' Bowling
Boys' Cross Country
Boys' Golf
Boys' Soccer
Boys' Swimming
Boys' Tennis
Boys' Track
Cheerleading
Football
Girls' Basketball
Girls' Bowling
Girls' Cross Country
Girls' Golf
Girls' Soccer
Girls' Softball
Girls' Swimming
Girls' Tennis
Girls' Track
Girls' Volleyball
Wrestling

Class-Related

Bass Choir
Chamber Choir
Stage Crew
Colorguard
DECA
FCCLA/HERO
Marching Band
Newtonia
Symphonic Band
Treble Choir
Wind Ensemble

Honorary Organizations

International Thespian Society
National Honor Society
Quill and Scroll

AGRICULTURE SCIENCE, TECHNOLOGY, AND MARKETING

Do You…

- Like planning and directing projects?
- Have an interest in working with animals or plants?
- Enjoy doing engineering or mechanical tasks?
- Enjoy working outdoors and studying environmental issues?
- Enjoy leadership activities?
- Love to travel?
- Want to make $$$?
- Want to meet new people with similar interests?

If so, you owe it to yourself to consider all of the career opportunities in the field of agriculture. There are more than 300 career paths that deal with the production, marketing, processing, and development of the nation's food supply and the care of its natural resources. Over **20 percent** of Iowa's jobs are directly related to the agriculture industry.

The Agricultural Education program is much more than a class. The agricultural education program consists of three parts: classroom, SAE, and FFA. Classroom instruction gives students the knowledge and skills they need for success in today's world, and students get a chance to practice and apply this knowledge and skills in their Supervised Agricultural Experience Projects (SAE) and through the National FFA Organization.

Supervised Agricultural Experience (SAE)
An SAE project is any experience outside of regularly scheduled class time in which the student gains new skills in agriculture. Students could hold an ag-related job, job shadow an ag professional, or own any agribusiness enterprise such as an animal or plant project or agriculture service business. Examples of common SAE programs include: raising animals, working at an agribusiness, taking photographs, growing and exhibiting flowers and vegetables, raising crops, trapping and hunting, mowing lawns, starting a small business, or completing an ag mechanics project. SAE project work makes up a small portion of the student's grade in the course.

Future Farmers of America (FFA)
FFA is an intracurricular organization for students enrolled in agricultural education courses. The Newton FFA Chapter offers a multitude of opportunities to get involved in leadership projects, community service, recreation, competitive events, scholarships, and skills development. Activities and competitions will allow students to put their learning into practice on a local, state, and national level.

Articulated Courses: Agricultural Science I, II, and III. See Page 8 for additional information.

Agricultural Science, Technology, & Marketing Courses

- Agricultural Science I
- Agricultural Science II
- Agricultural Science III
- Agricultural Science IV
- Introduction to Horticulture
- Advanced Horticulture
- Survey of the Animal Industry

Agricultural Science I (7011, 7012) Two Credits, Half Block Grades 9, 10, 11, 12
Animal science is the primary focus of Ag I. Students will study the beef, swine, sheep, horse, dairy, and poultry industries. Livestock nutrition, reproduction, and evaluation will also be covered. The FFA and Supervised Agricultural Experience (SAE) components will be introduced. Students also develop leadership and communication skills through FFA activities. Leadership, cooperation, respect, maturity, and responsibility are emphasized. Students will learn basic hand and power tool safety in the agricultural setting.

Agricultural Science II (7021, 7022) Two Credits, Half Block Grades 10, 11, 12
Crop production and animal science are the cornerstones for this course. Iowa's chief crops of corn, soybeans, and forages are covered. Crop production practices and grazing management are examined. Plant genetics and forestry round out the plant study. Units on animal care practices, equipment repair, and meat science help complement student livestock knowledge. Parliamentary procedure, FFA and SAE are also included.

Agricultural Science III (7031, 7032) Two Credits, Half Block Grades 11, 12
Agricultural business management and natural resource management are the areas of primary study in Ag Science III. Recordkeeping, ag economics, insurance, and ag law units will prepare students for agricultural careers. Animal science units will consist of dairy products and small animal care. Natural resource topics will include soil science and the importance of hunting and trapping as a wildlife management tool. In the shop, students will study electrical wiring and machinery management. Advanced leadership studies, FFA activities, and SAE work will round out this course.

Agricultural Science IV (7042) One Credit, Half Block Grade 12
Advanced agricultural management practices, career planning, and current issues in agriculture are main areas of study in Ag Science IV. Students will explore ag career and college options. Agricultural entrepreneurship is also stressed. Weed control and crop chemicals are examined in plant science. Units on sustainable agriculture, livestock facilities, biotechnology, and GPS help introduce students to recent advances in agriculture. As part of a natural resources unit, students will study sport fishing, aquaculture, and invasive species. Mechanical units will include concrete, plumbing, and fencing. Time will also be spent on preparing for advanced FFA degrees, offices, and awards.

Survey of Animal Industry (7040) One Credit, Half Block Grade 12
This course is an analysis of the livestock industry with emphasis on reproduction, inheritance, performance testing, selection and marketing. The purpose of this course is to understand not only the ways by which animals serve humanity, but appreciate the ways in which human caretakers manage and serve animals via selection, nutrition and management. **Offered for college credit DMACC AGS113 (3 credits)**

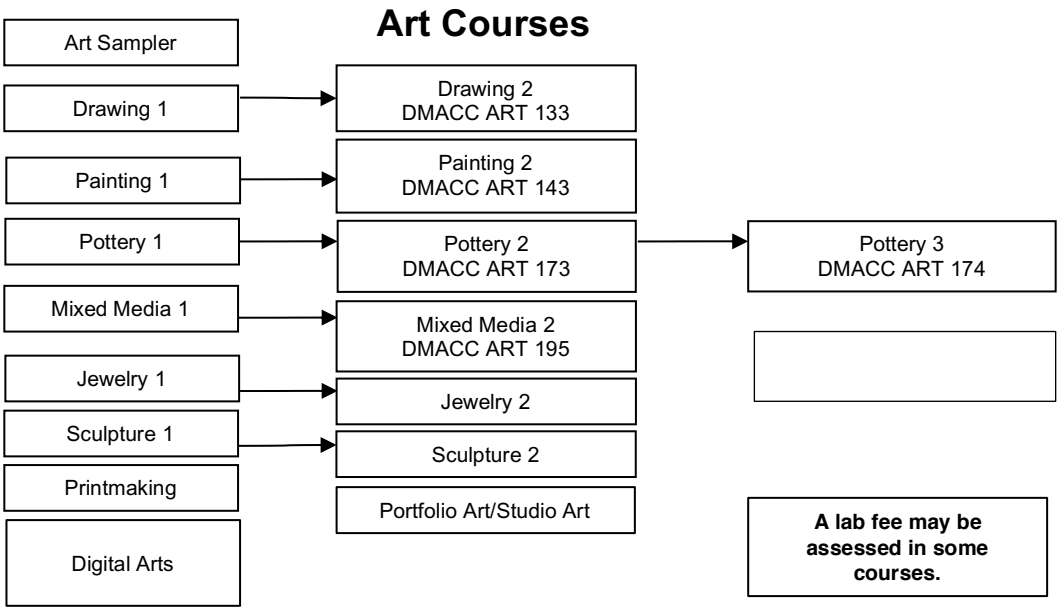
Introduction to Horticulture (7051) One Credit, Half Block Grades 10, 11, 12
This course introduces students to basic horticulture. Course includes plant anatomy and physiology, plant classification and identification, and basic plant care. **Offered for college credit DMACC AGH106 (3 credits)**

Advanced Horticulture (7052) One Credit, Half Block Grades 10, 11, 12
This course is designed for students that have completed Introduction to Horticulture (AGH106). Horticulture is designed to introduce students to the huge career area of horticulture. Students will learn how to take care of the trees, gardens, and lawns at home. Instruction will be given in basic plant science, environmental factors, plant nutrients, propagation, and pest management. Greenhouse production, gardening, fruit production, turf grass care, landscaping, and floral design will also be covered. Students will learn in the classroom, greenhouse, and in outdoor settings on campus and in the community.

Agriculture Teacher Internship (7061, 7062) One Credit, Half Block Grades, 10,11,12
Provides the student with an opportunity to gain knowledge and skills from a planned work experience in the student's chosen career field. In addition to meeting Agriculture Learning Outcomes, selected and evaluated by the Agriculture Instructor. Internship placements are directly related to the student's program of study and provide learning experiences not available in the traditional classroom setting. Internships provide entry-level, career-related experience, and workplace competencies and employers value when hiring new employees. Internships may also be used as an opportunity to explore career fields. Students must meet with the Agriculture Instructor prior to registering.

ART

Courses in the Art Department are designed to empower you to use technical and creative skills and to make informed personal choices in the process of making works of art. You will learn to expand your creative thinking skills while exploring various mediums such as pencil, marker, paint, chalk, clay, metal, dye, glass, and even found objects. You will learn a variety of techniques for using and combining these mediums. And note that most courses have a second or third level, many of which are offered for concurrent credit (high school and DMACC credit at the same time).



Art Sampler (1500) One Credit, Half Block Grades 9,10, 11, 12
An appetizer of all art courses that we offer at NHS. You will sample a little of each class; drawing, painting, pottery, jewelry, sculpture, mixed media, printmaking, and visual art design. Take this course first to see what interests you.

Drawing 1 (1010) One Credit, Block Grades 9, 10, 11, 12
Learn beginning drawing skills (drawing from life, portraits, perspective, etc.) and how to use materials including; pencil, colored pencil, and charcoal. Students will also view and discuss other's work

Drawing 2 (1020) One Credit, Block Grades 9, 10, 11, 12
Prerequisite: Drawing 1
You will use skills learned in Drawing 1 to create more advanced artwork. You will create drawings on a more personal level and explore a variety of materials. Students must be able to work independently in this and other upper level classes. **This course is offered for concurrent credit. DMACC Course ART 133 (3 credits)**

Painting 1 (1070) One Credit, Block Grades 9, 10, 11, 12
Learn beginning painting techniques and how to use materials including; watercolor and acrylics. Students will paint from life, photos, their imagination, and stories.

Painting 2 (1080) One Credit, Block Grades 9, 10, 11, 12
Prerequisite: Painting 1
You will use skills learned in Painting 1 to create more advanced artwork. You will have the opportunity to paint a variety of subject matters and experience more personal input and choices in your work. Students must be able to work independently in this and other upper level classes. **This course is offered for concurrent credit. DMACC Course ART 143 (3 credits)**

Mixed Media 1 (1030) One Credit, Block Grades 9, 10, 11, 12
You will make a variety of projects which may include fabric dyes, paper-making, bookmaking, printing, collage, sculpture, weaving and glass art. We will explore materials throughout the course to create original designs.

Mixed Media 2 (1040) One Credit, Block Grades 9, 10, 11, 12
Prerequisite: Mixed Media 1
You will use skills learned in Mixed Media 1 to create more advanced artwork and explore new techniques, materials, and processes. Students must be able to work independently in this and other upper level classes. **This course is offered for concurrent credit**. **DMACC Course ART 195 (3 credits)**

Pottery 1 (1050) One Credit, Block Grades 9, 10, 11, 12
Learn beginning pottery skills including; pinch, coil, slab, and wheel throwing. Students will learn various ways to decorate with glazes and other materials.

Pottery 2 (1060) One Credit, Block Grades 9, 10, 11, 12
Prerequisite: Pottery 1
You will use the skills learned in Pottery 1 to make a variety of new pieces. Work will be both hand-built and wheel-thrown. You will explore new decorating techniques and glazes. Students must be able to work independently in this and other upper level classes. **This course is offered for concurrent credit. DMACC Course ART 173 (3 credits)**

Pottery 3 (1065) One Credit, Block Grades 9, 10, 11, 12
Prerequisite: Pottery 2
You will refine your pottery-making skills both on the wheel and in making hand-built pottery. You will be challenged to design and create using your advanced pottery skills with the opportunity to use new techniques and specialized glazes and firing techniques. Students must be able to work independently in this and other upper level classes. **This course is offered for concurrent credit. DMACC Course ART 174 (3 credits)**

Sculpture 1 (1110) One Credit, Block Grades 9, 10, 11, 12
Learn beginning sculpture techniques including; subtractive (carving), additive (modeling), and assemblage techniques with one or more materials. Students may use clay, plaster, wood, found objects, cardboard, and various other materials.

Sculpture 2 (1120) One Credit, Block Grades 9, 10, 11, 12
Prerequisite: Sculpture 1
Building on the skills of Sculpture 1 you will develop a more personal expression through the use of a variety of materials. Students must be able to work independently in this and other upper-level classes.

Jewelry 1 (1090) One Credit, Block Grades 9, 10, 11, 12
Learn basic jewelry making skills including; designing, metal cutting, soldering, and metal forming.

Jewelry 2 (1100) One Credit, Block Grades 9, 10, 11, 12
Prerequisite: Jewelry 1
Building on the skills of Jewelry 1 you will have the opportunity to lean more techniques to create jewelry and small art objects. You will be able to combine techniques form Jewelry 1 with new processes and materials. Students must be able to work independently in this and other upper level classes.

Digital Arts (1180) One Credit, Block Grades 9, 10, 11, 12
Learn basic design skills through hands on artwork and computer based graphics. You may use programs such as Inkscape, Google Drawling, and Adobe Photoshop and Illustrator to create vector images and product designs.

Printmaking (1190) One Credit, Block Grades 9, 10, 11, 12
Learn basic printmaking techniques including; intaglio, collagraphs, foam block, linoleum block, monotypes, wood block, monotypes, etching, and screen printing on coaster and t-shirts. You will be able to create multiple copies of the same image through these processes.

Portfolio Art/Studio Art (1195) Half Credit, Half Block Grades 11, 12

Prerequisite: Must have completed a minimum of 3 other art courses prior to being enrolled & teacher approval required.

Portfolio Art is designed for upperclassmen who are interested in pursuing an art career beyond the high school level. It will address preparing and refining artwork for portfolio presentation and how to preserve and protect art. Students will create, select, respond to, and present work that clearly reflects newly obtained technical skills, increasing conceptual thinking and is a reflection of their personal interests.

Art Independent Study (1175) Grades 9,10,11,12

Prerequisite: must have completed all previous levels in that specific media. Teacher approval required.

A class for a student to continue in a specific media to investigate and develop more of their skills. Students must be able to work towards deadlines on their own. Examples of courses: Painting 3, Drawing 3, Pottery 4, & etc.

BUSINESS CLASSES

Seize the opportunity to learn business skills and gain knowledge for your personal life and professional career. Whether you're joining the workforce or continuing onto college, we have a business class for you!

DECA

Join our student organization!

DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management. Visit www.cardinaldeca.org & www.deca.org for more information.

	BUSINESS COURSES	College Credit?	9th Grade	10th Grade	11th Grade	12th Grade
COMPUTER	Basic Keyboarding		☆	☆	☆	☆
	Keyboarding		☆	☆	☆	☆
	Computer Applications *DMACC Credit!*	Yes! DMACC		☆	☆	☆
	Advanced Computer App. *Independent Study*				☆	☆
BUSINESS ADMIN & MARKETING	Introduction to Business		☆	☆		
	Accounting	Yes! DMACC		☆	☆	☆
	Advanced Accounting *Independent Study*				☆	☆
	Business Law			☆	☆	☆
	Management			☆	☆	☆
	Marketing			☆	☆	☆
	Entrepreneur • DECA *3 University of Iowa Credits!*	Yes! U of Iowa		☆	☆	☆
LIFE SKILLS & JOB TRAINING	Personal Finance			☆	☆	☆
	Business Work Experience				☆	☆
	Cardinal Internship/Job Shadow				☆	☆
	FLEDGE Innovator *3 University of Iowa Credits!*	Yes! U of Iowa			☆	☆
ACADEMY	Business Administration *DMACC Career Academy*	Yes! DMACC			☆	☆

COMPUTER CLASSES

Basic Keyboarding (1200) One Credit, Half Block Grades 9, 10, 11, 12

Take this class, rather than keyboarding, if you type 25 words per minute or less.

Improve your typing technique and increase your keying speed in this class! You will use Email, Microsoft Word, and Microsoft Excel to format these documents: Emails • Letters • Reports • Tables • Spreadsheets • Charts • And More!

Keyboarding (1210) One Credit, Half Block Grades 9, 10, 11, 12

Take this class, rather than Basic Keyboarding if you type more than 25 words per minute.

Have you mastered good typing technique, but would like to expand your skills? After a brief review of the keyboard you will use Email, Microsoft Word, and Microsoft Excel to format these documents: Emails • Letters • Reports • Tables • Spreadsheets • Charts • And More!

Computer Business Applications (1220) One Credit, Half Block Grades 10, 11, 12

Prerequisite: Basic Keyboarding, Keyboarding, or Instructor Approval

Use Microsoft Office to enhance your word processing, database, spreadsheet, and presentation software skills.

- Microsoft Word: MLA Research Papers • Promotional Fliers • Company Letter Head • Tables
- Excel: Worksheets • Embedded Charts • Formulas • Functions • Formatting • What-If Analysis
- Access: Databases • Objects • Queries
- PowerPoint: Clip Art • Pictures • Shapes • Word Art • Media

Earn 3 college credits. DMACC Course BCA 212 taught at NHS

Advanced Computer App. (1500) One Credit, Half Block Grades 11, 12

Prerequisite: Computer Applications • This class is an independent study

Continue your in-depth study of the Microsoft Office program; NHS credit only

- Microsoft Word: Newsletters • Mailing Labels • Specialty Tools
- Excel: Hyperlinks • Schedules • Lists • Templates • Other Projects
- Access: Expanded Uses for Databases
- PowerPoint: Enhanced Presentations

BUSINESS ADMIN & MARKETING

Introduction to Business (1230) One Credit, Half Block Grades 9, 10

Operate a business within the classroom! Units include: Personal Finance • the Job Getting Process • Soft Skills • Economics • Business Law • Ownership Structures • Management • Marketing • Accounting • Entrepreneurship

Accounting (1261,1262) Two Credits, Half Block Grades 10, 11, 12

What is a balance sheet and an income statement? Gain a financial understanding of financial bookkeeping principles and business operations. You will analyze transactions, journalize entries, and prepare financial reports for small businesses. *After completing the first semester, the second semester is offered for college credit DMACC course* ***ACC111 (3 Credits).***

Advanced Accounting (1271, 1272) Two Credits, Half Block Grades 11, 12

Prerequisite: Accounting • This class is an independent study

Advance your accounting knowledge! Improve your financial decision making and use technology: Units include: Adjustments • Budgeting Procedures • Departmental Accounting • Cost Accounting • Corporate and Partnership Financing.

Business Law (1320) One Credit, Half Block Grades 10, 11, 12

Order in the court! Learn the importance of laws, their effect on society, and how they relate to business and the individual. You will learn these basics: Criminal and Civil Law • Contract Law • Student Rights and Responsibilities • Wills and Inheritance • Basic Property Laws

Management (1310) One Credit, Half Block Grades 10, 11, 12

What motivates employees to do a good job in the workplace? Acquire a broad overview of the necessary skills needed to manage a business! The Free Enterprise System • Forms of Ownership • Four Functions of Management • Communications • Business Insurance • Marketing Management • Managing Human Resources.

Marketing (1330) One Credit, Half Block Grades 10, 11, 12

Make your own SOAP product and build its MARKETING PLAN! SUDS IT UP with these topics; Ethics • Market Research • Target Markets & Consumer Behavior • Branding & Positioning • Product, Place, Price, & Promotions • Digital and Social Media Marketing. CLEANSE by playing "Mimic Social", the world's first social media marketing simulation!

Entrepreneur (1351, 1352) Two Credits, Half Block Grades 10, 11, 12

Suggested Pre or Co-requisite: Intro to Business or another business class

Learn while doing "hands-on" projects:

Distribute Superfan Apparel • Organize the homecoming parade • Launch the school store • Create specialty products • Tour businesses • Attend city business and industry events • Develop a business plan • Use digital tools • Create a website using the Wix platform • Grow your leadership skills • Compete in online business games • Engage in Newton DECA!

Earn 3 credits from the University of Iowa after passing an exit exam if taking the full year class

LIFE SKILLS & JOB TRAINING

Personal Finance (1291, 1292) Two Credits, Half Block Grades 10, 11, 12

Engage in these consumer finance experiences:

Semester 1 (1291)	Semester 2 (1292)
Getting a Job	Consumer Protection
Budgeting	Using and Building Credit
Understanding Paycheck Deductions	Buying, Financing, and Insuring a Car
Check Writing	Investments
Savings Accounts	Housing/Renting
Filing Income Tax	Life Insurance
Introduction to Credit	Wills and Funerals

Business Work Experience (1361, 1362) Two Credits, Half Block Grades 11, 12

Prerequisite or Co-requisite: Accounting, Marketing, Management, or Entrepreneur class

Get a school credit for working! Work a job in a customer service field to receive credit each semester for your on-the-job experience. You may keep a job that you already have or apply for a new position. Your job can be during the school day, evenings, or weekends. Your school coordinator and employer will work together to provide guidance and assistance.

Cardinal Internship (1381, 1382, 1383, 1384) One Credit, Block Grades 11, 12

Prerequisites: Application, 95% Attendance rate, 2.0 Cumulative GPA

Participate in a career exploration in the field of your choice*. Work with local employers to fully engage and participate in the daily operations of the work place. Gain valuable insight and experience in your chosen field through the internship experience. A short orientation will be completed the first week of internship. Students will provide their own transportation to the worksite. *Be aware that some shadows are not possible due to the nature of the industry, (for example financial advisors and psychologists).

Shadow Break Internship (1371 Winter, 1372 Spring) Half Credit, Block Grades 11, 12

Job shadow in the field of your choice over winter or spring break. Work with local employers to fully engage and participate in the daily operations of the work place. A short orientation will be completed prior to shadowing. Thirty hours is required to earn the half credit. Students will provide their own transportation to the worksite.

FLEDGE Innovator (1390) Two Credits, 1 Block for 2 Terms Grades 11, 12

Prerequisites: 95% Attendance rate, 2.0 Cumulative GPA

- Supports STEM Initiatives (Science/Technology/Engineering/Math) or business innovations
- Apply creativity and innovation for solutions to local community problems by working in a student team on projects with mentors from local businesses.
- FLEDGE provides a learning environment designed to foster development of entrepreneurial thinking and leadership skills through strategic development and execution.
- *At the end of the class, students will take a U of I written exam. To receive the college credit, students must score 70% or higher on the exam. Students must also submit all FLEDGE Innovation Portfolio materials and pass all items. After the test, each student decides if they'd like to receive the three U of I credits and pay a $150 course fee; otherwise students will receive two NHS credits.*

Earn 3 Transferable Credits from the University of Iowa in Entry-Level Engineering or Entrepreneurship

Business Administration (0803, 0804) 5 Credits, Block PLUS Grades 11, 12

Prerequisites 3 NHS business courses

This program provides a foundation of business-related courses that will prepare students for entrance into a multitude of business programs at post-secondary institutions. Components include: Introduction to Business • Selling • Career Development • Human Relations in Management • Business Law • Personal Finance.

This is a DMACC ACADEMY program; 5 NHS Credits

FAMILY AND CONSUMER SCIENCE

Family and Consumer Science Classes offer a unique focus on families, work, and their relationships, providing a solid foundation of success for any student. The essential knowledge and skills developed through Family and Consumer Sciences Programs prepare students for a successful future in many fields, as well as in family and community life. The classes are designed to assist the student in the development of attitudes, appreciations, understandings, and techniques necessary for these skills.

Because each person's contributions to society depend heavily on early family experiences, education for home and family life is offered during their high school career. Regardless of interests, abilities, or background, a person's successes, satisfactions and growth as a person depend upon their ability to relate to others, to set realistic personal goals and to manage resources. Ultimately, Family and Consumer Science classes prepare students for a more satisfying life.

Graduation Requirement: One credit in Health
Articulated Courses: Early Childhood Occupations

Family and Consumer Science Courses

Human/Family Services

- The Sewing Connection
- Child Development
- Parenting Skills
- Adult Living
- Health
- Early Childhood Occupations / Work Experience DMACC Credit
- DMACC Health Occupations
- DMACC Certified Nurse Aide Training

Food Production & Nutrition Service

- Careers/Foods 9
- Foods 1
- Foods 2
- DMACC Baking

Housing, Fashion & Design

- The Sewing Connection
- Project Runway: Sewing 1
- Project Runway: Sewing 2
- Project Runway: Fashion
- Housing and Interior Design

HUMAN /FAMILY SERVICES

The Sewing Connection (3410) One Credit, Block Grade 9
Discuss personal growth, fashion and begin sewing! Topics covered will be personal growth, respecting friends, relationships, fashion terms/history, and basic sewing skills. Students will complete a sewing project to take home. This is a comprehensive course and gives students an opportunity to learn about different content areas in FCS.

Child Development (3800) One Credit, Half Block Grades 10, 11, 12
Are children in your future? Child Development will build a positive understanding of children's growth and development from conception to age six. Students will learn the theories of development and growth as well as techniques to use when working with children through class activities, presentations, discussions and DVDs. Creating a children's texture book, puppets and games will enhance their knowledge and experiences.

Parenting Skills (3610) One Credit, Block Grades 10, 11, 12
Parenting may be the hardest job you will ever have if you choose to have children. Parenting requires a variety of skills such as communication, decision-making, discipline, listening, sacrificing, handling your emotions and your children's, managing your resources, and being a healthy role model. This course will help develop those skills and more. This may be the first and last education you receive about such an important job as "Parenting."

Adult Living (3750) One Credit, Block Grades 11, 12
Ready to move out and be on your own!!! This class will help you look at some of the issues you will be faced with. Topics covered will be: the challenges of moving away from home (supplies for a home, dealing with neighbors, car maintenance), care/management of an apartment (safety, clothing care/sewing repairs), employment for you, decisions people have to make, communication, relationships with others, choosing a mate, marriage, establishing a family, and challenges in a family.

Health (3600) One Credit, Half Block Grades 9, 10, 11, 12
Prevention and knowledge about health care is the key component of the Health class. Many topics applying to your future life will be covered as the semester progresses. Various activities, projects, and speakers will bring the topics to life as information is explored**. Take care of yourself and be informed!** The state CPR requirement will also be covered in this course.

Students whose religious beliefs conflict with Physical Education or Health instruction may be excused through a written request submitted to the Principal. (Board Policy 602.11) Parents who object to health education instruction in human growth and development may file a written request that the pupil be excused from the instruction. (Board Policy 602.12) This is a class that covers many topics regarding health issues students will face in the future. Before making a request, carefully consider the importance of taking this class versus never having the information. The information in this class is critical for all students.

Health Online (3602) One Credit, Online Grades 9,10,11,12
Prerequisite: Health
Health literacy is "the degree to which individuals have the capacity to obtain, process and understand basic health information and services needed to make appropriate health decisions" (Nielsen-Bohlman, 2004). With an emphasis on personal health, this course will challenge students to consider their mental health, their nutritional health and their physical health. Topical health issues underlie all course content. Students develop communication skills that allow them to demonstrate healthy choices with respect for self, family and other. This course is designed to help students develop the knowledge and skills needed to make appropriate health decisions throughout their lifespan.

Early Childhood Occupations (3831, 3832) Two Credits, Half Block Grade 12
Child Occupations Work Experience (3841, 3842) Two Credits, Block Grade 12

Prerequisites: Child Development is desirable; Complete Application; Instructor Approval

Early Childhood Occupations is a course at the high school and a field-based internship in a preschool, elementary or middle school setting. The students will apply their knowledge of child development to the principles of effective teaching practices while building professional job skills. Students will learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, and complete other responsibilities of teacher while on the job site. **This class would provide great experiences for students who are interested in elementary education, preschool or day care, handicapped children, nursing, social work, or just have a strong interest in working with children**.

Preference for selection will be given to those with (1) a strong interest in children, (2) a positive attitude, and (3) attendance. This class can be taken for first semester and/or second semester. Early Childhood Occupations students will be working with children at job sites on a non-paid basis. **Students will provide their own transportation to job sites.**

DMACC Credit SDV 212/222 and or SDV212/223(5 credits for full program)

Health Occupations (0301, 0302) Five Credits, Block PLUS Grades 11, 12

Prerequisite: Health, Applied Biology, or Biology

This is a DMACC ACADEMY offering. It requires completion of required documents (criminal background check and immunization record) before start of class. Students must register for the full year. This year-long program will provide students the opportunity to explore careers in health care and work toward CNA training. Fourteen DMACC credits are available upon completion of all DMACC Career Academy course offerings. ****Course requires extended clinical sessions in evenings and/or weekends.* ***Times: 7:30-9:30AM and 1:15-3:15PM***

Certified Nurse Aide Training (0303, 0304) 2.5 Credits, Block PLUS Grades 11, 12

Prerequisite: Health, Applied Biology, or Biology

This is a DMACC ACADEMY offering. It requires completion of required documents (criminal background check and immunization record) before start of class. Students may take only the Nurse Aide 75 hours class if they so choose. This is a semester-long certification program for students interested in becoming a CNA. Six DMACC credits are available upon completion of all DMACC Career Academy course offerings. ****Course requires extended clinical sessions on evenings and/or weekends.* ***Times: TBA***

FOOD PRODUCTION AND NUTRITION SERVICES

Careers/Foods 9 (3420) One Credit, Block Grade 9

Wanting to develop your skills in food knowledge and preparation with additional information about career work ethics and work habits? **This is the course to take!!** Getting ready for the food service career areas and establishing good work ethics will be studied, along with many hands-on activities concerning food preparation, nutrition, food safety, time management, and kitchen upkeep. A lab fee will be associated with this course.

Foods 1 (3480) One Credit, Block Grades 10, 11, 12

Would you like to lean to make a variety of foods like pastas, fruit pizza, ice cream, pretzels, plus Chinese & Mexican dinners? Then join us in Foods 1 as we explore many different food favorites. This class will give students a chance to learn basic food preparation skills that will last a lifetime. Time will be spent in cooking labs preparing a wide variety of foods. Emphasis will be given to healthy eating and making wise food choices as well as time management, recipe skills, food safety and possible careers in food service. Students will also discover how new information and research can have an effect on personal wellness.

Foods 2 (3490) One Credit, Block Grades 10, 11, 12

Prerequisite: Foods 1

Does making delicious appetizers, soups, salads, cakes, pies, cookies, and breads sound fun to you? How about learning to cook fish, seafood, and chicken as well as reception planning? Then join us for Foods 2. Food is an integral part of everyone's life. Baking and cooking can be a source of security, pride, and enjoyment. This class will help students develop an aesthetic appreciation for food while refining skills in food preparation, recipe reading, and working with others. Students will be developing skills for everyday use or for a future in the food industry. A lab fee will be associated with this course.

Baking (0401, 0402 – Year One) Five Credits, Block PLUS Grades 11, 12

Prerequisites: Foods 1, Foods 2

This is a DMACC ACADEMY offering. Students must register for the full year. Through hands-on experience, students are introduced to the scientific principles used in food preparation, the hospitality industry, and the fundamentals of dining and sanitation. Twenty-two DMACC credits are available upon completion of all DMACC Career Academy course offerings. ***Times: 7:30-9:30AM***

HOUSING, FASHION AND DESIGN

The Sewing Connection (3410) One Credit, Block Grade 9

Discuss personal growth, fashion and begin sewing! Topics covered will be personal growth, respecting friends, relationships, fashion terms/history, and basic sewing skills. Students will complete a sewing project to take home. This is a comprehensive course and gives students an opportunity to learn about different content areas in FCS.

Project Runway: Sewing 1 (3710) One Credit, Half Block Grades 10, 11, 12

Sewing, the great "hands on" skill that is coming back!! Learn the basics about textiles, basic sewing, fashion sewing, crafts, and quilting. Just take a look at all of the sites online that use basic sewing skills.

Project Runway: Sewing 2 (3720) One Credit, Half Block Grades 11, 12

Prerequisite: Project Runway: Sewing 1

Work on perfecting those sewing skills!! You will be continuing your sewing with projects of your choice plus work on basic alteration skills.

Project Runway: Fashion (3700) One Credit, Half Block Grades 10, 11, 12

Discover the process fashions take from design to your closet. This course explores design, advertising, visual merchandising, textiles and garment parts, design writing, and careers relating to fashion. Designers and fashions of the past are also explored.

Housing/Interior Design (3660) One Credit, Block Grades 10, 11, 12

Housing and Interior Design is a class which you will learn everything from housing styles and basic construction to interior design. You will be looking at your community in a very different perspective after taking this class, plus you will be gathering ideas for that future apartment or home.

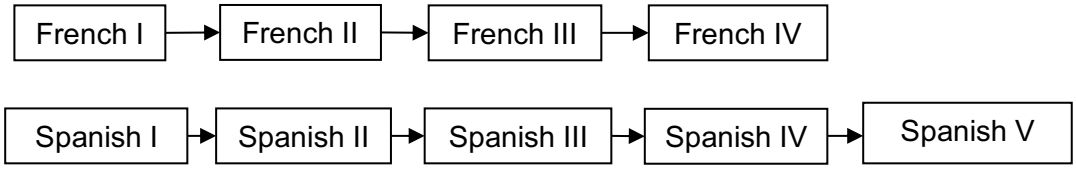
FOREIGN LANGUAGE

Foreign Language classes concentrate on developing skills in five areas: speaking, listening, writing, reading, and culture. Active participation and academic integrity as well as practice through homework are mainstays of the program. The study of culture includes the customs, beliefs, habits, history and arts of the people and countries of the target language. Respect for cultural differences is paramount.

IT IS HIGHLY RECOMMENDED THAT STUDENTS DEMONSTRATE PROFICIENCY ON THE READING PORTION OF THE IA ASSESSMENTS OR PASS FRESHMAN ENGLISH BEFORE ENROLLING IN A FOREIGN LANGUAGE. Our experience has shown that students who do not meet these criteria tend to have more difficulty with Foreign Language—especially as a freshman.

IT IS RECOMMENDED THAT STUDENTS EARN A GRADE OF C OR BETTER IN PREREQUISITE COURSES BEFORE MOVING ON.

Foreign Language



French I (3111, 3112) Two Credits, Half Block Grades 9, 10, 11, 12
Spanish I (3211,3212)
These courses introduce students to the language and culture of French or Spanish. Students will work to build basic vocabulary and structure to facilitate communication.

French II (3121,3122) Two Credits, Half Block Grades 10, 11, 12
Spanish II (3221,3222)
Prerequisites: French I or Spanish I respectively with a Grade of C or higher
As a continuation of the foreign language program of study, the second course allows students to hone their language skills. Students will use their skills and vocabulary from level 1 to build their vocabulary as well as learn more advanced grammar structures.

French III (3130) Two Credits, Block Grades 10, 11, 12
Spanish III (3230) Two Credits, Block Grades 10, 11, 12
Prerequisites: French II or Spanish II respectively with a Grade of C or higher
During the third course in a foreign language, students will begin to develop more refined language skills. More in-depth culture studies will be included. Students will begin to learn the nuances of language as well as more advanced structures and specialized vocabulary. Students must be able to attend the entire block class. **French III offered for college credit to those in grades 11 and 12. DMACC Course FLF 241 (4 credits)**

French IV (3140) Two Credits, Block Grades 10, 11, 12
Spanish IV (3240) Two Credits, Block Grades 10, 11, 12
Prerequisites: French III or Spanish III respectively with a Grade of C or higher
As the culmination of the foreign language program, heavy emphasis will be placed on the use of the language through participation in class activities. Students will be expected to apply their language skills to a variety of situations. This course is literature-based and students will be using authentic texts to improve their skills and vocabulary. Students must be able to attend the entire block class. **French IV offered for college credit to those in grades 11 and 12. DMACC Course FLF 242 (4 credits)**.

Spanish V (3250A,3250B) Two Credits, Block Grades 11,12

Prerequisites: Spanish IV respectively with a grade of c or higher or teacher approval.

This course is designed for the advanced student who wants to continue their Spanish education. This class will utilize prior language skills to acquire knowledge about the history and culture of Spain through various modes; including reading by famous Spanish authors. Students are expected to communicate in Spanish and the majority of instruction will be in Spanish as well. Students must be able to attend the entire block class. Spanish V is offered for college credit to those in grades 11 and 12. DMACC Course FLS 241 (4 credits).

GUIDANCE

Your assigned counselor will assist you and your parents in preparing your individual program of studies throughout your four years at Newton High School. Prior to registration you should carefully review your planned program to be certain it best meets your goals and aspirations.

Guidance and Related Courses

Success 1 (1811, 1812) Two Credits, Half Block Grade 9
Success 2 (1821, 1822) Two Credits, Half Block Grade 10
Success Group (1851,1852) Two Credit, Half Block Grade 11,12
Prerequisite: Counselor Recommendation
The Success class is designed to assist at-risk students in assessing their interests and abilities as well as developing their self-esteem, study skills, and career awareness. This class is part of a more comprehensive program to enable selected students to improve their attendance, to succeed in high school, and eventually succeed in future careers. Students will be identified through a selection process.

English Language Learner (ELL) (2931, 2932) Two Credits, Half Block Grades 9, 10, 11, 12
Prerequisite: Non-English Speaking
Students who have a language other than English as their native language may qualify for ELL services. Testing is required prior to admission to determine placement. English credit is awarded. Contact your counselor for additional information.

Teacher Academy (0311, 0312) Five Credits, Block PLUS Grades 11, 12
Prerequisite: Child Development
This is a DMACC ACADEMY offering. Students must register for the full year. The Teacher Academy provides students with an opportunity to explore education-related professions and take part in real-life teaching experiences. Students will spend 120 hours shadowing elementary- and secondary-school personnel during portions of their assigned class time. Courses fulfill Level I Field Experience requirement at many four-year colleges. **Times: 7:30-9:30AM**

INDUSTRIAL TECHNOLOGY

Newton High School Industrial Technology programs provide students with practical experiences in material processing, project planning, and problem-solving activities. These activities replicate entry level experiences in many industry related occupations and are a valuable asset in beginning technology careers.

While gaining experience in course activities, students begin to develop an appreciation for skills and attitudes required to succeed in selected careers. These skills and attitudes are easily transferred from career to career making it easy for an individual to be successful in any job they may choose.

The course subject matter provides students with both content related experiences and practical experiences that reinforce high school core courses. The experience and knowledge gained is part of the overall educational experience in compliance with the school board statement of philosophy and provides a foundation that will help in selecting a life's work.

Industrial Technology Programs & Related Courses

Programs	Construction Technology	Manufacturing Technology		Engineering Technology		Service Technology
Intro Courses	Introduction to Woodworking Introduction to Manufacturing Engineering Drafting 1 Introduction to Transportation					
Suggested Courses	Home Repair General Woodworking Architectural Drafting	Home Repair General Woodworking Advanced Woodworking	Metals Engineering Drafting 2 Engineering Drafting 3 Advanced Metals	Metals Engineering Drafting 2 Engineering Drafting 3	Home Repair Architectural Drafting	Power Technology Auto Upkeep Metals Automotive Tech
Career Areas	Building Trades	Wood Trades	Machine Trades	Engineering Technology	Architecture	Automotive Trades

Refer to the individual course descriptions for grade level and prerequisite information.

Introduction to Woodworking (4010) One Credit, Half Block Grade 9,10, 11, 12
Activities will focus on safety, proper use of hand tools and power equipment, plan reading, project completion, and career opportunities. Students will work on a variety of projects including cutting boards, picture frames, and mini baseball bats. It is recommended that students interested in pursuing higher level industrial technology courses take this course as a freshman.

Introduction to Transportation (4015) One Credit, Half Block Grades 9, 10, 11, 12
This course will introduce students to the fundamentals of the transportation industry and its importance to our national economy. Students will discover how people and goods are moved throughout the world. Activities may include truck driving simulation, flight simulation, bicycle maintenance, model railroad construction, rocket building and boat testing. This course is recommended for students that wish to pursue a career in the transportation industry.

Intro to Manufacturing (4020) One Credit, Half Block Grade 9,10, 11,12

This course introduces students to Newton High School's Industrial Technology programs. Students will work on a variety of projects including a tool box, rotational molded ball, injection molded screw driver, and resin casted giant clothes pin. Students will develop skills to be used in multiple classes in the Industrial Technology program. Activities will focus on four basic areas: print reading, layout, metalworking, and plastics.

Engineering Drafting 1 (4070) One Credit, Half Block Grades 9, 10, 11, 12

This course introduces industrial design and its place in the manufacturing process. Content includes design visualization, creation, and application of 3-D computer-generated models in today's manufacturing, communication, and publishing industries; creating a 3-D computer model component design from original idea, pencil sketching, and concept analysis, to use of surface and solid modeling software, model construction and editing, display commands, detailing, geometric translation, rendering and presentation.

Engineering Drafting 2 (4080) One Credit, Half Block Grades 10, 11, 12

Prerequisite: Engineering Drafting 1

This course enables students to learn mechanical drafting concepts and its language. Students will have experiences that may include graphic symbols, geometric construction, sketching, multi-view drawings, orthographic projection, pictorial drawings, basic dimensioning, sectioning, and auxiliary views. All activities will include traditional and CAD techniques to produce working drawings.

Engineering Drafting 3 (4090) One Credit, Half Block Grades 10, 11, 12

Prerequisite: Engineering Drafting 2

This course enables students to learn basic drafting techniques and extends their knowledge in descriptive geometry, revolutions, assembly drawings, sheet metal layout, advanced dimensioning procedures, and machining processes. Other activities will include CAD generated 3D modeling. All activities will include traditional and CAD techniques to produce working drawings.

Architectural Drafting (4100) One Credit, Half Block Grades 10, 11, 12

Prerequisite: Engineering Drafting 1

This course enables students to learn basic room planning, architectural symbols, architectural language and architectural plans needed to build a residence. Activities will include traditional drafting skills and computer research. Field trips may be taken to experience various architectural designs and construction techniques.

Metals (4140) Two Credits, Block Grades 10, 11, 12

This course enables students to learn basic metal fabrication processes. Activities may include shop safety, precision measurement, layout, basic machine processes, forging, welding, and CNC programming. Students are required to complete projects that demonstrate their knowledge of learned processes.

Advanced Metals (4150) Two Credits, Block Grades 11, 12

Prerequisite: Metals with B or Better

This course enables students to expand their knowledge and techniques in metal fabrication. Activities may include advanced machine processes, foundry processes, welding, and CNC programming and machining. Students are required to complete projects that demonstrate their knowledge of learned processes.

Power Technology (4160) One Credits, Half Block Grades 10, 11, 12

This course enables students to learn how engines work. Activities will include servicing, maintaining and repairing small engines and the equipment that it powers. Students are required to complete activities that will demonstrate their knowledge and skills needed to work in the transportation service industry. This course is a prerequisite for Automotive Technology and it is suggested for anyone intending to pursue a career in the transportation or maintenance field.

Auto Upkeep (4170) One Credit, Half Block Grades 10, 11, 12
This course is designed for the student who would like to own and maintain a personal vehicle. This course covers basic car care, under hood inspection (fluids, belts, hoses), removing & replacing items(wiper blade, lamps, and fuses), cooling system maintenance, tire information, brake inspection, minor ignition system maintenance (spark plug, wires, firing order, car buying, car insurance, and service information.

Automotive Technology (4180) Two Credits, Block Grades 11, 12
Prerequisite: Power Technology
This course enables students to learn a wide range of topics related to the automotive industry. Emphasis is placed on automotive systems theory, basic maintenance, and troubleshooting techniques. Activities include servicing, maintaining, and repairing the students' vehicles. Students are required to complete activities that demonstrate their knowledge of learned theories and processes.

General Woodworking (4200) Two Credits, Block Grades 10, 11, 12
This course enables students to learn basic woodworking techniques, types of materials, and processes used to produce a product. Students will also learn how to use basic woodworking tools and power equipment. Activities will include producing projects that use the techniques taught in the class. Students are required to build teacher-selected projects that relate to techniques taught in the class. All students will pass machine safety assessments with 100% accuracy.

Home Repair (4040) One Credit, Half Block Grades 10, 11, 12
This course provides students with knowledge and skills to repairs the systems found in the home. Students who want a basic knowledge and understanding of useful skills for owning a home should take this course. This class will provide students common sense skills to make them handier at home. Course content may include electrical wiring, plumbing, window and door repair and installation, wall and floor repair and finishing, furniture repair and finishing, and small appliance repair.

Advanced Woodworking (4210) Two Credits, Block Grades 11, 12
Prerequisite: General Woodworking ***with B or Better***
This course enables students to learn advanced woodworking techniques, types of materials, and processes used to produce finely-crafted wood products. Students will also learn how to use specialized woodworking tools and power equipment. Activities will include producing projects that use the techniques taught in the class, class trips, and career areas. Students will be required to plan and build their own individual project. This will be reviewed and approved with the instructor. All machine and tool safety assessments will be passed with 100% accuracy by all students. Students will procure all materials for their individual projects. Site visits to local businesses may be included.

Industrial Tech Teacher Internship (4220) 1 Credit, Half Block Grades 10, 11, 12
Prerequisite*: 1 Industrial Tech Elective* ***& Instructor Approval***
Provides the student with an opportunity to gain knowledge and skills from a planned work experience in the student's chosen career field. In addition to meeting Industrial Tech Learning Outcomes, selected and evaluated by the Industrial Tech Instructor. Internship placements are directly related to the student's program of study and provide learning experiences not available in the traditional classroom setting. Internships provide entry-level, career-related experience, and workplace competencies that employers value when hiring new employees. Internships may also be used as an opportunity to explore career fields. Students must meet with the Industrial Tech Instructor prior to registering.

Automotive Collision (0001, 0002 – Year One) Five Credits, Block PLUS Grades 11, 12
Prerequisites: Power Technology & Auto Technology
This is a DMACC ACADEMY offering. Students must register for the full year. This program introduces students to the highly technological industry of Auto Collision and Repair. Students will gain experience in the areas of basic shop operations and procedures, welding, painting, and shop safety. Fifteen DMACC credits are available upon completion of all DMACC Career Academy offerings. ***Times: 7:30-9:30AM or 1:15-3:15PM***

Building Trades/Finish Carpentry (0005, 0006,0015, 0016) Five Credits, Block PLUS Grades 11, 12

Prerequisites: Woodworking & one industrial tech elective

This is a DMACC ACADEMY offering. Students must register for the full year. This program allows students to engage in experiential learning in the areas of Construction and/or Carpentry. Twenty-one DMACC credits are available upon completion of all DMACC Career Academy course offerings. Transportation to job site is required. ***Times: 7:30-9:30AM or 1:15-3:15PM***

Welding (0101, 0102 – Year One) (0103, 0104 – Year Two)Five Credits, Block PLUS Grades 11, 12

Prerequisites: Metals & Advanced Metals

This is a DMACC ACADEMY offering. Students must register for the full year. Students will learn the trade of welding. This program will be scheduled as interest demands. ***Times: To be determined***

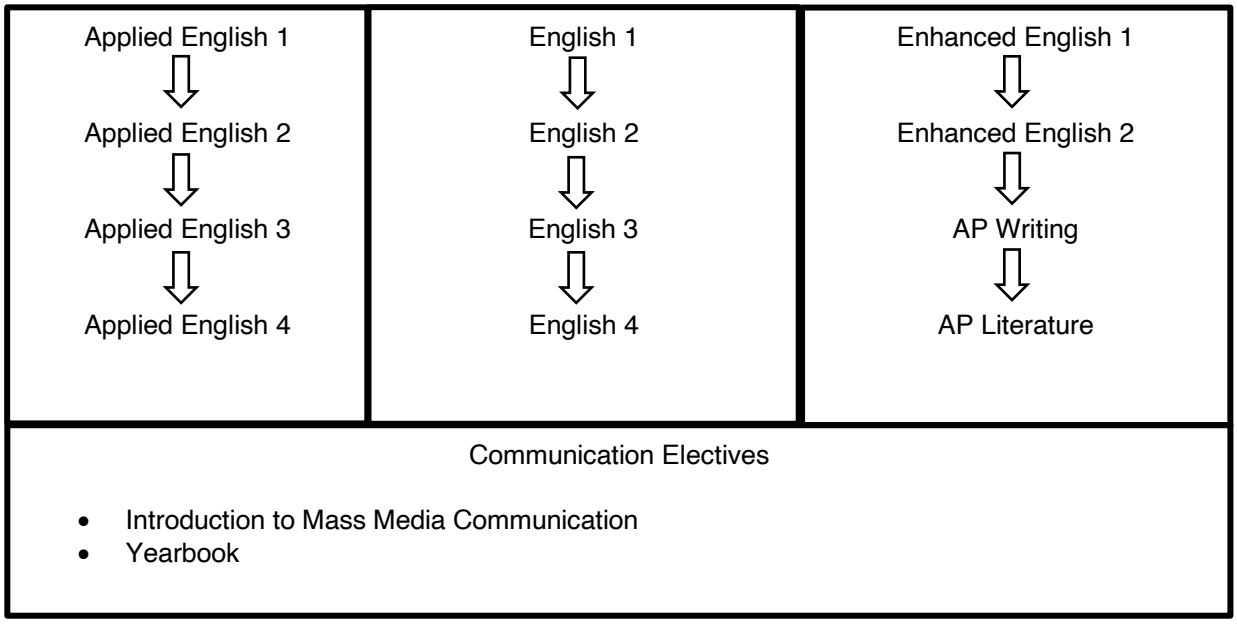
LANGUAGE ARTS

The basis of all human existence is communication. The Language Arts Department emphasizes comprehension of the written word, writing and speaking with clarity and accuracy, logical and creative thinking, and acting. Aesthetic appreciation of traditional Western values is emphasized during reading, discussing, and writing. Our goal for students is for each student to be a successful communicator in any vocational choice. All classes, professions, or jobs are affected by the student's mastery of the English Language. It is the vital link between ourselves and others in sharing information.

Graduation Requirements: Eight credits including English Foundations and/or English I or Enhanced English I, English II or Enhanced English II, a Literature Elective, and a Writing Elective.

Language Arts Courses

Required Courses



Applied English 1 (2261)(2262) Two Credit, Half Block Grade 9

Applied English 1 courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. The course will introduce and define various genres of literature, with writing exercises often linked to reading selections. This course is designed for students who have shown low growth/low achievement on MAP exams, non proficiency on ISASP, or teacher recommendation.

Applied English 2 (2271)(2272) Two Credits, Half Block Grade 10

Prerequisite: Applied English 1 or English 1

English II courses usually offer a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. This course is designed for students who have shown low growth/low achievement on MAP exams, non-proficiency on ISASP, or teacher recommendation.

Applied English 3 (2283)(2284) Two Credits, Half Block Grades 11

Prerequisite: Applied English 2 or English 2

English III courses continue to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses. This course is designed for students who have shown low growth/low achievement on MAP exams, non-proficiency on ISASP, or teacher recommendation.

Applied English 4 (2291)(2292) Two Credit, Half Block Grades 12

Prerequisite: Applied English 3 or English 3

English III courses continue to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses. This course is designed for students who have shown low growth/low achievement on MAP exams, non-proficiency on ISASP, or teacher recommendation.

English I (2311)(2312) Two Credits, Half Block Grades 9

English 1 courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. The course will introduce and define various genres of literature, with writing exercises often linked to reading selections.

Enhanced English 1 (2320A, 2320B) Two Credits, Half Block Grade 9

English 1 courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. The course will introduce and define various genres of literature, with writing exercises often linked to reading selections. This course is designed for students who have shown high achievement on MAP exams and teacher recommendations.

English 2 (2350A, 2350B) Two Credits, Half Block Grades 10

Prerequisite: Applied English 1 or English 1

English II courses usually offer a balanced focus on composition and literature. Typically, students learn about the audiences and purposes of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.

Enhanced English 2 Literature (2400) One Credit, Half Block Grade 10
Enhanced English 2 Writing (2410) One Credit, Half Block Grade 10

Prerequisite: English 1 or Enhanced English 1

English II courses usually offer a balanced focus on composition and literature. Typically, students learn about the audiences and purposes of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. This course is designed for students who have shown high achievement on MAP exams and teacher recommendations.

English 3 (2421)(2422) Two Credit, Half Block Grades 11

Prerequisite: Applied English 2 or English 2

English III courses continue to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.

English 4 (2521)(2522) Two Credit, Half Block Grades 12

Prerequisite: Applied English 3 or English 3

English IV courses blend composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers. This course is designed for students who have shown high achievement on MAP exams and teacher recommendations.

Advanced Placement Writing (2660A, 2660B) Two Credit, Half Block Grades 11, 12

Prerequisites: Enhanced English 2 or Teacher Approval

Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Language and Composition courses expose students to prose written in a variety of periods, disciplines, and rhetorical contexts. These courses emphasize the interaction of authorial purpose, intended audience, and the subject at hand, and through them, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects that are intended for various purposes.

Advanced Placement Literature (2480A, 2480B) Two Credit, Half Block Grades 10, 11, 12

Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Literature and Composition courses enable students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own (including literary analysis, exposition, argument, narrative, and creative writing).

Introduction Mass Media (2120) One Credit, Half Block Grades 9, 10, 11, 12

In this course, students will explore different types of media through learning about the history of mass communication throughout time, including the beginning of the newspaper, radio and TV broadcasting, as well as social media platforms and other media types such as blogging and podcasts. Students will create news reports on current events, as well as explore topics of interest to them through the use of different types of media. Video production, news writing and editing elements will be some of the techniques taught in learning about media in the 21st century as a tool for mass communication and exploring relevant topics in today's society.

Yearbook(2151, 2152) Two Credits, Half Block Grades 10, 11, 12

Students in yearbook are responsible for planning, writing, editing, designing, and completing one volume of the Newtonia, the NHS yearbook. Students will record a history of the school year for students, faculty, and staff in a responsible journalistic manner. This course may be repeated for elective credit. Priority will be given to upperclassmen.

ESL Language Arts (2201,2202,2203,2204) One Credit, Half Block Grades 9,10,11, 12

Prerequisite: Teacher/Counselor approval

English as a Second Language (ESL) courses are designed for the acquisition and rapid mastery of the English language, focusing on reading, writing, speaking, and listening skills. ESL courses usually begin with extensive listening and speaking practice, building on auditory and oral skills, and then move on to reading and writing. These courses provide an explanation of basic structures of the English language, enabling students to progress from an elementary

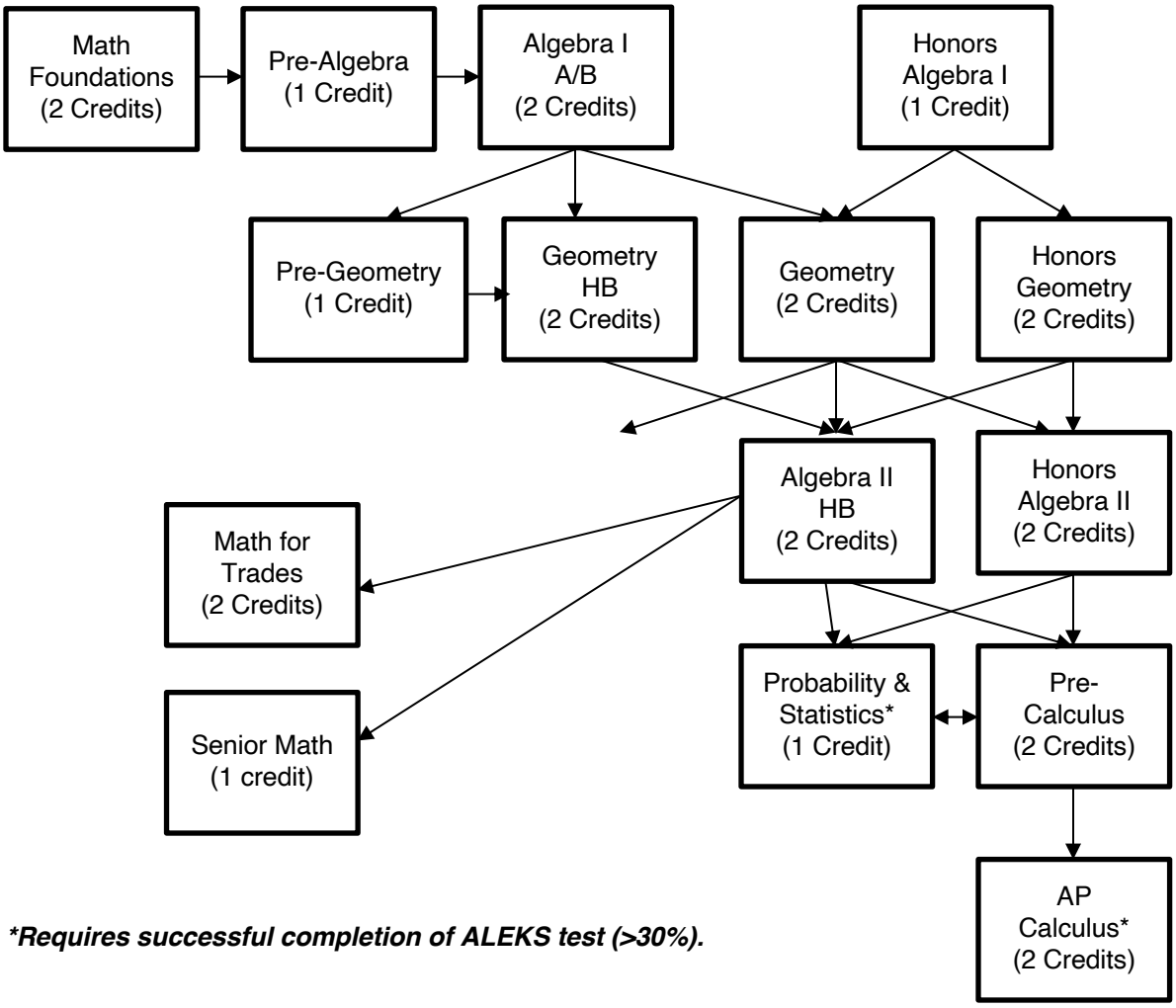
understanding of English words and verb tenses to a more comprehensive grasp of various formal and informal styles and then to advance to “regular” English courses. ESL classes may also include an orientation to the customs and culture of the diverse population in the United States.

MATHEMATICS

Mathematics courses at Newton Senior High are designed to provide a wide variety of mathematical concepts while showing the interrelationships between mathematics and other disciplines. Mathematics will provide students with the basic skills needed for everyday life, for the career of their choice, or for continued education. The department provides a variety of well-planned and sequential mathematics courses that allow for individual needs and differences. Hopefully, the student will develop an interest and appreciation for mathematics and be able to relate topics to their place in history.

Incoming freshmen should take a mathematics course each semester of their freshman year. They will generally enroll in Algebra I A or Honors Algebra I first semester (depending upon their mathematics background and aptitude) and then Algebra I B or Honors Geometry second semester. Algebra I, Geometry, and Algebra II are minimally suggested courses for students planning on attending college following high school graduation.

Graduation Requirements: Six credits



Requires successful completion of ALEKS test (>30%).

Math Foundations (4501, 4502) Two Credits, Half Block Grades 9, 10

Math Foundations is a basic math class that covers operational skills required for success with Algebra and Geometry content. Math Foundations will cover number theory, fractions, ratios and proportions, rational numbers, and integers. This course is intended for students who need extra practice before moving into working with variables in Algebra. This course does NOT satisfy requirements for entry into a four-year college.

Pre-Algebra (4511) One Credit, Half Block Grades 9, 10

Pre-Algebra is intended to strengthen freshman students' mastery of concepts and skills necessary for success in the high school Iowa Core mathematics courses. It provides a general introduction to the study skills and mathematics necessary at the high school level while covering algebraic topics including real number operations on expressions, linear equations and inequalities, and linear graphs. This course corresponds to 8th grade math. This course does NOT satisfy requirements for entry into a four-year college.

Algebra I A/B (4601A, 4602B) Two Credits, Half Block Grades 9, 10, 11, 12

This course completes the first course in the college preparatory mathematics sequence, Algebra I. It will include a review of linear equations and inequalities but focus primarily on operations with quadratic equations and polynomials. This course will also examine the applications of these algebraic skills across other mathematical fields, including basic geometry, probability, and statistics. This is the initial course in meeting the Iowa Core High School Standards.

Honors Algebra I (4611) One Credit, Half Block Grades 9, 10, 11, 12

Honors Algebra I is designed for the advanced college-bound student. It is an introduction to the Honors program for those students that were successful with Algebra at the 8th grade level. In addition to a review of the topics of Algebra I, students will be introduced to a variety of advanced algebraic techniques and applications including factoring, rational expressions, exponentials, and statistical analysis.

Pre - Geometry (4680) One Credit, Half Block Grades 9,10

Prerequisite: previous completion of Pre-Algebra and Algebra 1, students who have completed *Geometry are ineligible to enroll.*

Pre-Geometry is intended to strengthen students' mastery of concepts and skills necessary for success in the High School Iowa Core mathematics courses. It provides a general introduction to the study skills and mathematics necessary at the high school level while covering geometry topics including defining angles, circles, surface area and volume, transformations, triangles, polygons, and the Pythagorean Theorem. This course does NOT replace Geometry in the four-year college admission requirements.

Geometry HB (4691, 4692) Two Credits, Half Block Grades 10, 11, 12

Prerequisite: Algebra I

Geometry is the second course in the college preparatory mathematics sequence. Students will apply a variety of problem-solving procedures, along with mathematical thinking and reasoning to solve problems involving geometric concepts. Topics will include inductive and deductive reasoning, relationships of points, lines, and planes, and properties of triangles, quadrilaterals, polygons, and circles. Technology will be used throughout the course. This is the second course in meeting the Iowa Core High School Standards. The half block class is intended for those students who may be more successful in this format.

Geometry (4690) Two Credits, Block Grades 10, 11, 12

Prerequisite: Algebra I

Geometry is the second course in the college preparatory mathematics sequence. Students will apply a variety of problem-solving procedures, along with mathematical thinking and reasoning to solve problems involving geometric concepts. Topics will include inductive and deductive reasoning, relationships of points, lines, and planes, and properties of triangles, quadrilaterals, polygons, and circles. Technology will be used throughout the course. This is the second course in meeting the Iowa Core High School Standards.

Honors Geometry (4730) Two Credits, Block Grades 9, 10, 11, 12

Prerequisite: Honors Algebra I or high grades in Algebra I: recommended for students planning to take Pre-Calculus and/or AP Calculus while in high school. Instructor recommendation.

Honors Geometry is designed for the advanced college-bound student. It is accelerated and more intense when compared to regular Geometry and covers more topics at a quicker pace. In addition to the topics of Geometry, students will be introduced to logic, voting methods, discrete topics, probability and statistical analysis.

Algebra II (4621, 4622) Two Credits, Half Block Grades 10, 11, 12

Prerequisite: Algebra I

Algebra II is the third course in the college preparatory mathematics sequence. It briefly reviews the topics covered in Algebra I and introduces the student to higher level topics in mathematics. Topics will include quadratic functions, polynomial functions, exponential and logarithmic functions, graphing of rational functions, normal distribution of data, fundamental probability principles, and trigonometry. This course is recommended for those students who do not plan on taking Pre-Calculus and/or Calculus. This is the third course in meeting the Iowa Core High School Standards.

Honors Algebra II (4630) Two Credits, Block Grades 10, 11, 12

Prerequisites: Grade of B- or higher in Algebra I and Geometry or Honors Geometry: recommended for students planning to take Pre-Calculus and/or AP Calculus while in high school.

Honors Algebra II is designed for the advanced college-bound students. It is accelerated and more intense when compared to regular Algebra II and will cover more topics at a quicker pace. In addition to the topics of Algebra II, students will be introduced to trigonometry functions, trigonometry graphs, trigonometric identities, and sequences and series.

Math for the Trades (4591,4592) Two Credit, Half Block Grades 11,12

Prerequisite: Successful completion of Algebra 1 and attempt/pass Geometry, Completed or currently enrolled in an Industrial Technology course.

Math for the Trades is intended for students who are planning to attend a trade school or apprenticeship. This course does NOT satisfy requirements for entry into a four-year college. The course will cover algebraic and geometric skills needed for CTE careers. The topics that will be covered include measurement, angles, geometric shapes, area, volume, linear equations, and ratios/proportions.

Senior Math (4900) One Credit, Half Block Grade 12

Prerequisite: Successful completion of Algebra 1 and Geometry and attempted Algebra 2.

Senior Math is intended for students who plan to attend a post-secondary college. This course does NOT satisfy requirements for entry into a four-year college. The content that will be covered include geometric, algebraic and statistical topics.

Probability and Statistics (5070) One Credit, Half Block Grades 11, 12

Prerequisite: Above average grades in Algebra II or Honors Algebra II
**Requires successful completion of ALEKS test (>30%).*

Probability and Statistics is an elective course that acquaints the student with methods of gathering, organizing, and analyzing descriptive statistics with the underlying principles of probability. Topics will include exploring data, normal distributions, graphic relationships, sampling, randomness, binomial and geometric distributions, and sampling distribution. Students will use technology, including graphing calculators, to facilitate computational processes. **Offered for college credit. DMACC Course MAT 157 (4 credits)**

Pre-Calculus (4830) Two Credits, Block Grades 11, 12

Prerequisite: Above average grade in Algebra II or Honors Algebra II: recommended for college-bound students.

Pre-Calculus is the fourth course of the college preparatory mathematics sequence. It briefly reviews the topics covered in Algebra II and develops the basic understanding and manipulative skills that are essential for success in Calculus and beyond. Topics will include function operations over the categories of rational, exponential, logarithmic, conic sections, and trigonometric concepts. The student will also cover analytic geometry, vectors, polar coordinates, and complex number operations.

Advanced Placement Calculus (4890) Two Credits, Block Grades 11, 12

Prerequisite: Above average grade in Pre-Calculus.
Students who do not pass Term 1 should consider retaking Pre-Calculus.
**Requires successful completion of ALEKS test (>30%).*

AP Calculus is a college level, advanced high school mathematics course. It is designed to develop a basic understanding of differential and integral calculus. Topics include a review of pre-calculus fundamentals, limits and continuity, and differentiation and integrations techniques and applications. Technology, including graphing calculators, will be used throughout the course. **Offered for college credit** and students may elect to take the AP test. **DMACC Course MAT 211 (5 credits)**

MUSIC

The primary purpose of the music curriculum of Newton High School is to provide a program of music education which contributes to the development of cultural and aesthetic values appropriate for high school students. These values are taught through large performing groups, small ensembles, and music theory. Students who participate in the courses from year to year will be provided a variety of musical experiences with emphasis on the study and performance of selected musical literature representative of a wide range of periods, styles, nationalities, forms, composers, and media.

Students participating in music are provided the opportunity to develop musical talents to their full potential. Participation in the music curriculum will increase student understandings and appreciations of the art of music and its relevance to human life. Additionally, the goal of the music curriculum is the discovery and development of each student's aptitudes so that music will permanently enhance the quality of the individual's life whether the student continues musical activity as a vocation, avocation, or for personal pleasure.

Music Programs

Instrumental	Vocal	General
Band (9th – 12th)	Bass Choir (9th – 12th)	Music Theory (9th – 12th)
	Treble Choir (9th – 12th)	Jazz Techniques (9th – 12th)
	Chamber Choir (10th – 12th)	Colorguard (9th – 12th)

Band (5111, 5112) 2.5 Credits, Half Block Grades 9, 10, 11, 12

Prerequisite: Proficiency in playing an instrument

NOTE: First semester band, which includes marching band, will earn 1.5 credits.

High School band is made up of a variety of ensembles including Marching Band, Wind Ensemble, Symphonic Band, Jazz Ensemble, Jazz Lab, and Pep Band. In addition to these ensembles members will have the opportunity to participate in honor bands, all-state, and solo/ensemble contest.

9th grade students are required to participate in band for the full year.
10-12th grade students are strongly encouraged to participate in band the full year.

Marching band is a highly visible and competitive ensemble that operates from the beginning of the school year until the middle of October. The marching band performs at all home football games and at 4 competitions per year. Two marching band camps will be held during the summer to prepare the students for the marching band season. One will be at the end of June and the other will be in late July or early August. Participation in these camps is expected as part of the class. Drum line and Colorguard members have additional rehearsals throughout the summer. During the school year the marching band will rehearse before school Monday through Friday.

Concert band begins in the middle of October and continues until the end of the school year. Auditions for the Wind Ensemble and Symphonic Band will take place immediately after marching band is over. Both ensembles will work to refine the skills of tone production, technique, rhythm, intonation, and musicianship. Concert band rehearsals will take place during the school day unless performance demands require additional rehearsal time. **Students participating in band 2nd semester only, will be placed in the Symphonic Band.**

Jazz Ensemble and Jazz Lab are extra-curricular ensembles that work in conjunction with the high school band department. All rehearsals will take place outside of the school day. **All students, excluding bass, piano and guitar players, must be enrolled in band for both semesters to be a member of a jazz band.** ***(This is a state rule.)*** The band department travels a lot during the school year and every four years will take a major trip to perform in a national setting. **Students must participate in band the full year to attend the major band trip.** Past trips have included New York City, Orlando, and Washington, D.C.

Colorguard (5151) One Credit, Half Block Grades 9, 10, 11, 12

Prerequisite: Audition

Colorguard is an auxiliary group that performs with the Marching Band. Students selected for Colorguard, but not in Band, should schedule Colorguard to guarantee a rehearsal time with the Band during first term. Colorguard meets term one during block 1A. Outside school rehearsals and summer rehearsals are required.

Bass Choir (5341, 5342) Two Credits, Half Block Grades 9, 10, 11, 12

Bass Chorale is a full credit ensemble made up of 9th – 12th grade tenors and basses. Students will develop a musical vocabulary, healthy vocal technique, sight reading skills, and artistry in preparation for performance and for membership in Chamber Choir. This group participates in several concerts throughout the year, including Fall Festival, Winter Concert, Pops Concert , Spring Concert and attends the State Large Group contest in the spring.

Treble Choir (5351, 5352) Two Credits, Half Block Grades 9, 10, 11, 12

Treble Choir is a full credit ensemble made up of 9th – 12th grade sopranos and altos. Students will develop a musical vocabulary, healthy vocal technique, sight reading skills, and artistry in preparation for performance and for membership in Chamber Choir. This group participates in several concerts throughout the year, including Fall Festival, Winter Concert, Pops Concert, Spring Concert and attends the State Large Group contest in the spring.

Chamber Choir (5361, 5362) Two Credits, Half Block Grades 10, 11, 12

Chamber Choir is an audition only mixed ensemble emphasizing vocal development and musical technique. Auditions will be held in the spring semester for the following school year. Any current freshman through junior who will be a sophomore through senior in the following school year may audition for this choir. The results of choir rehearsals are heard in concerts throughout the school year, including Fall Festival, Winter Concert, Pops Concert, Spring Concert, and Graduation. Jazz Choir is a co-curricular ensemble that operates within the choir department. Jazz Choir is open through auditions in the fall and rehearses outside the school day from November through April. Any singer registered for a curricular choral ensemble is eligible to audition. Jazz Choir will perform at concerts and vocal jazz competitions throughout the school year.

Music Theory (5400) One Credit, Half Block Grades 9, 10, 11, 12

Prerequisite: Prior Musical Experience and Teacher Recommendation

Music Theory is an introductory study of the structure and fundamentals of music. It is an elective course planned for any student desiring a more thorough understanding of music based upon knowledge of the techniques and skills involved in its structure. The course is conducted in a laboratory manner with emphasis on writing and analysis. Theoretical problems are explained as students encounter them and creative work is encouraged. Students who participate in this course should acquire the necessary skills for effective musical expression.

Jazz Techniques (5420) One Credit, Half Block Grades 9,10, 11, 12

Prerequisites: Music Theory. Students should be familiar with all twelve major scales on their instrument with six to seven of these memorized.

Jazz Techniques is designed to expose students to the history, theory, and fundamentals of performing instrumental jazz music. The focus of Jazz Techniques is on improvisation and/or rhythm section playing in small groups. Instruction and assessments will be given in the areas of jazz history, jazz theory, and jazz language skills and acquisition. Students will have opportunities to rehearse individually, in combo group settings, and with pre-recorded rhythm section backgrounds. Forms for assessment will include in class performance, written tests and quizzes, transcription projects, and portfolios.

PHYSICAL EDUCATION

All students are required by state law to participate in physical education classes each year they are in attendance. An effort is made to provide a variety of classes and activities to meet the needs and interests of as many students as possible. The target outcome of the Physical Education class is to meet the following National PE Standards:

The physically literate individual shall:
1. Demonstrate competency in a variety of motor skills and movement patterns.
2. Apply Knowledge of concepts, principles, strategies, and tactics related to movement and performance.
3. Demonstrate the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness.
4. Exhibit responsible personal and social behavior that respects self and others.
5. Recognize the value of physical activity for health, enjoyment, challenge, self-expression, and/or social interaction.

National Standards for K-12 Physical Education Copyright 2013, SHAPE America –Society of Health and Physical Educators, 1900 Association Drive, Reston, VA 20191, www.shapeamerica.org.

Students whose religious beliefs conflict with Physical Education instruction may be excused through a written request submitted to the Principal annually. (Board Policy 602.11)
Graduation Requirements: Four credits.

9th Grade	10 - 12
• PE 9 • Strength and Conditioning 9	• Personal Fitness • Strength and Conditioning • Advanced Strength and Conditioning • PE 10-12

Physical Education 9 (5510) One Credit, Block Grade 9
An introductory class designed to give an exposure to different activities offered in the high school Physical Education curriculum. This class will have a mixture of Team, Individual, and Fitness activities that the student will be exposed to.

Strength and Conditioning 9 (5520) One Credit, Half Block Grade 9
This course is designed to give freshman an introduction to Strength and Conditioning at Newton High School. Students will be introduced to all phases of a high school level strength and conditioning program, building upon their knowledge gained from extracurricular activities and Cardinal Power. The main focus will be upon athlete development and the use of Olympic weightlifting techniques. The state CPR requirement will also be covered in this course.

Personal Fitness (5620) One Credit, Half Block Grades 10, 11, 12
Personal Fitness is a physical education class that focuses on moving, and learning about different ways to stay physically active throughout the lifetime. Daily walking/jogging, cardiovascular activities, resistance strength training, and core conditioning are the primary activities. A healthy eating lifestyle is addressed.

Strength and Conditioning (5811, 5812) One Credit, Half Block Grades 10, 11, 12
This course is designed to help improve a person's overall muscular strength and muscular endurance. This class is designed as an introductory class on weight lifting methods, and for students wanting to lift weights for fitness. There is a special emphasis on technique learning the basics of program design, and helping students prepare for a lifetime of physical activity. The student will be required to track their improvement through Teambuildr, with max testing performed throughout the semester to monitor improvement.

Advanced Strength and Conditioning (5821, 5822) 1 Credit, Half Block Grades 10, 11, 12

Prerequisite: Strength and Conditioning 9 or Strength and Conditioning, Instructor Approval

This course is specifically designed to help a person train for athletics. We emphasize functional strength and movement skills to help a person be the best athlete that they can be. Additional topics will also include team-building, leadership, and nutrition. Highly recommended for students participating in athletics at NHS.

PE 10-12 (5610) One Credit, Block Grades 10, 11, 12

This course provides an opportunity for a student to improve their health and fitness in a variety of settings. The student will participate in a variety of activities, and concepts such as strategies, teamwork, and competition will be stressed. Activities will be focused on sports that are common in rec league environments, and a student could participate in throughout their lifetime. Examples would be basketball, volleyball, flag football, etc. Activities offered will be dependent on the term.

PRE-ENGINEERING

Project Lead The Way is a nation-wide program that exposes high school students to engineering concepts and careers. Through a series of three courses students can gain knowledge and experience, and can explore the many fields in engineering. Students will have the opportunity to take the first two courses on campus and then Digital Electronics with the local DMACC. Students who earn qualifying scores can gain college credit for the courses at a fraction of the normal cost.

The entire three-course strand is available to NHS students. Course sequence: Introduction to Engineering Design, Principles of Engineering, Digital Electronics (at DMACC).

Introduction to Engineering Design (IED) (4310) Two Credits, Block Grades 9, 10, 11, 12

Prerequisite/Co-requisite: Algebra I
Offered alternating years

This is a Pre-Engineering course where students use 3D solid modeling design software to help design solutions to proposed problems. Students will learn how to document their work and communicate solutions to peers and members of the professional community. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. Completion of this course will earn for the student Industrial Technology credit. **Offered for college credit. DMACC Course EGT 400 (4 credits)**

Principles of Engineering (POE) (4320) Two Credits, Block Grades 10, 11, 12

Prerequisite/Co-requisite: Algebra I
Offered alternating years

This survey course of engineering exposes students to some of the major concepts they will encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high-tech careers and to develop skills and understanding of course concepts. Students employ engineering and scientific concepts in the solution of engineering design problems. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students also learn how to document their work and communicate their solutions to peers and members of the professional community. This course is designed for 10th or 11th grade students. **Offered for college credit. DMACC Course EGT 410 (3 credits)**

PLTW-Principles of Biomedical Science (4340) Two Credits, Block Grades 10, 11, 12

Prerequisites: Completion of or concurrent enrollment in Biology

From design and data analysis to outbreaks, clinical empathy, health promotion, and more, students will explore the vast range of careers in biomedical sciences. Use concepts of biology and medicine as you take on roles of different medical professionals to solve real-world problems. Scenarios include investigating a crime scene to solve a mystery, diagnosing and proposing treatment for patients in a family medical practice, tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems. ***Optional College Credit: 3 transferrable credits from the University of Missouri Science and Technology*.***

PLTW-Human Body Systems (4350) Two Credits, Block Grades 11, 12

Prerequisite: Principles of Biomedical Science

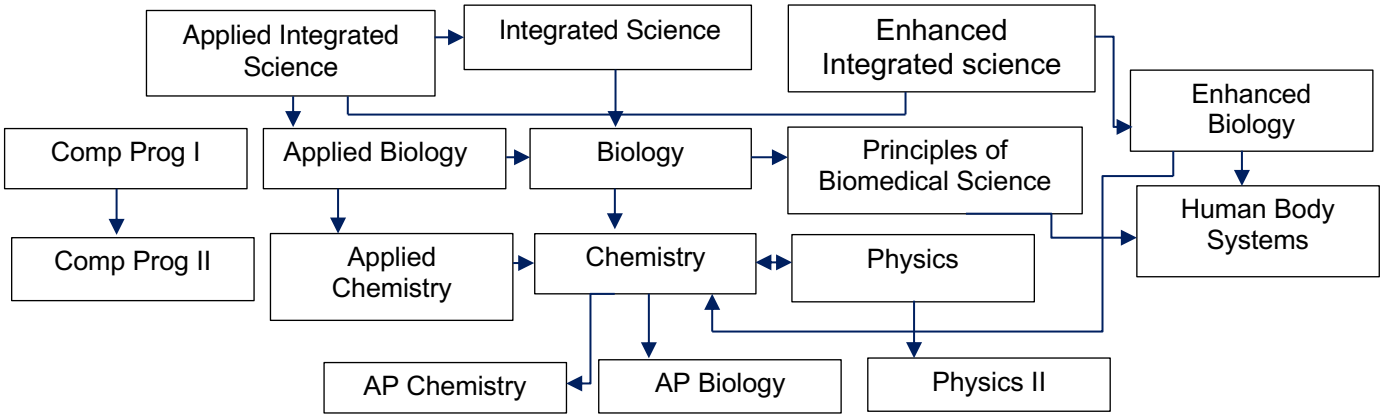
This is the second course in the Project Lead the Way Biomedical science course of study. Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. This is an elective course and is not a substitute for any core requirement. **College credit: 3 transferrable credits from the University of Missouri Science and Technology.**

SCIENCE

The abilities to think critically, form evidence-based conclusions, and solve problems are the backbone of science. Regardless of the pathway chosen, these skills will be practiced with hand on activities and experimentation. Students have a variety of options in the science pathway and will work with their guidance counselors to choose the pathway that best suits their post high school plans.

Graduation Requirements: 6 credits: Two credits in either Applied Integrated, Integrated, or Enhanced Integrated Science, 2 credits in Applied Biology, Biology, or Enhanced Biology, and 2 credits in Applied Chemistry or Chemistry.

Science Courses



Follow the arrows for the recommended sequence of courses.

Applied Integrated Science (6001, 6002) Two Credits, Half Block Grades 9, 10
This course emphasizes the reinforcement of theories and practical applications of the basic concepts of physics, astronomy, and earth science. The curriculum also emphasizes building science skills that prepare students for subsequent high school science courses.

Integrated Science (6011, 6012) Two Credits, Half Block Grades 9, 10, 11, 12
Integrated Science is a course designed to continue the knowledge spiral curriculum begun in middle school. In this course students will study topics from the areas of physics and earth science in a manner that allows you to see the interconnections between them. Students will conduct many laboratory activities to gain a better understanding of these topics.

Enhanced Integrated Science (6021, 6022) Two Credits, Half Block Grade 9
Prerequisite: Teacher Recommendation and a Grade of B- or Higher in 8th Grade Science.
The core curriculum of this course is the same as that of Integrated Science, with many of the topics studied at a deeper level. Students will find themselves challenged at a high level and will be expected to meet rigorous standards.

Applied Biology (6030) Two Credits, Block Grades 10, 11, 12
Prerequisite: Integrated Science or Applied Integrated Science and approval from Integrated Science Instructors.
Note: This course is not accepted by four-year colleges as fulfillment of the science credit prerequisites for admission. This activity-based class focuses on life sciences with units that may include: ecology, populations, cells, genetics, evolution, and human systems.

Biology (6060) Two Credits, Block Grades 10, 11, 12

Prerequisite: Integrated Science or Enhanced Integrated Science

Biology is a course designed for those students who plan to attend a four-year college or university. Students continue to develop their understanding of the nature of science through investigations. Major topics include: biochemistry, ecology, molecular biology, genetics, evolution, and human systems.

Enhanced Biology (6065A, 6065B) Two Credits, Block Grade 10

Prerequisites: Completion of Enhanced Integrated Science with a grade of B or better, or Integrated Science with a grade of A or better and Integrated Science teacher recommendation.

This course is designed to satisfy the required life science credit and allow students to accelerate their science pathway with the goal of taking more science electives in higher grades. Students who meet the prerequisites and who are interested in exploring career options in the medical field will also benefit from this course. Students will complete the Principles of Biomedical Science course as well as meet all essential Biology standard core concepts with the addition of ecology and evolution standards. See Principles of Biomedical Science for a description of this course. **This course will have homework.** ***College Credit: 3 transferrable credits form the University of Missouri Science and Technology*.***

Advanced Placement Biology (6091, 6092) Two Credits, Half Block Grades 11, 12

Prerequisites: Chemistry and Biology

AP Biology is a course for the student preparing to study the Life Sciences at the college level and/or take the AP exam. This course aligns with the College Board and will study scientific principles, theories and processes that govern living organisms. Inquiry based labs will expand on topics such as cell communication, heredity, gene expressions, ecology and natural selection.

Applied Chemistry (6140) Two Credits, Block Grades 10, 11, 12

Prerequisite: Applied Biology or Biology

This course is designed for students with low IA Assessment scores in Science and students that are not planning to attend a four-year college after high school. This Chemistry course will focus on the understanding of the structure of atoms, the structure and properties of matter, and basic chemical reactions. Students will actively participate in the scientific activities of observation, calculation, generalization, explanation, and application of chemical concepts. This course is not accepted by four-year colleges for freshmen admissions.

Chemistry (6150) Two Credits, Block Grades 10* 11, 12

*Prerequisite: Algebra I and a Grade of C or higher in Integrated Science, Enhanced Integrated Science or Enhanced Biology. *Sophomores who have completed Enhanced Biology*

This course is designed for students planning to attend a four-year university. Chemistry emphasizes the development of an understanding of how a chemist works rather than memorization of a mass of information. The unifying principles of chemistry are developed from experimental observation. Students actively participate in the scientific activities of observation, calculation, generalization, explanation and application and will develop a better appreciation for the scientific method as a tool for seeking true understanding. Topics covered may include chemical elements, atoms, molecules, chemical equations, gases, liquids, solids, atomic and electronic structure, chemical bonding, molecular structure, equilibrium, and acids and bases.

Advanced Placement Chemistry (6170) Fall Semester Two Credits, Block Grades 11, 12

Prerequisite: Chemistry with a Grade of B- or Higher

AP Chemistry is a course for the student interested in preparing for college chemistry or the AP chemistry exam. The course follows a curriculum that would prepare students for the exam in the spring. The fall block semester will include the exploration of gas laws, kinetics, equilibrium reactions, acid-base reactions, and electrochemistry. Laboratory experiences follow the AP chemistry format and expand on topics discussed in class. Independent study/review is expected during the spring semester for students planning to take the AP chemistry exam.

Physics (6190) Two Credits, Block Grades 11, 12

Concurrent Enrollment: Algebra II or Equivalent and completion of Integrated Science or Enhanced Integrated Science

Physics is a course which investigates the interactions in our universe between energy and matter. This broad description realistically includes the study of any natural phenomena. The following topics are covered in physics: kinematics, Newton's laws of motion, conservation laws, universal gravitation, kinetic theory, electrostatics, electric circuits, magnetism, waves and optics, and the atom and nucleus.

The physics classroom is dynamic with interaction between teacher and students encouraged through discussion, laboratory work, and problem solving sessions. Students are led to discover the laws of nature through experimentation, and given confidence in the predictability of natural phenomena. This course will only skim the very surface of the body of knowledge that is known as physics, but will give students interested in science and science related careers an excellent framework of knowledge and experiences.

Physics II (6210) Two Credits, Block Grades 11, 12

Prerequisite: Physics

Physics II is offered for those students desiring a second year of physics and is intended for students who are planning to pursue an engineering or science major. The course is flexibly structured to meet student interests in particular areas. Topics usually covered include Oscillation and Waves, Gravitation and Orbits, Electricity an Magnetism, as well as, modern topics such as Relativity and High Energy Physics.

PLTW-Principles of Biomedical Science (4340) Two Credits, Block Grades 10, 11, 12

Prerequisites: Completion of or concurrent enrollment in Biology

From design and data analysis to outbreaks, clinical empathy, health promotion, and more, students will explore the vast range of careers in biomedical sciences. Use concepts of biology and medicine as you take on roles of different medical professionals to solve real-world problems. Scenarios include investigating a crime scene to solve a mystery, diagnosing and proposing treatment for patients in a family medical practice, tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems. ***Optional College Credit: 3 transferrable credits from the University of Missouri Science and Technology*.***

PLTW-Human Body Systems (4350) Two Credits, Block Grades 10, 11, 12

Prerequisite: Principles of Biomedical Science

This is the second course in the Project Lead the Way Biomedical science course of study. Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. This is an elective course and is not a substitute for any core requirement. ***Optional College Credit: 3 transferrable credits for the University of Missouri Science and Technology *.***

College credit is earned by achieving an A or B average for the semester as well as a minimum score on the PLTW end-of course exam. Before paying for credit ($250 for three credits), students should check with their colleges of choice to determine transferability.

COMPUTER SCIENCE

Computer Programming I (5010) One Credit, Half Block Grades 10, 11, 12

Prerequisite: Algebra I

This course is for students looking to develop the basic skills required to write computer programs. The focus lies on general programming skills and practices rather than learning any specific programming language. Variables, functions, methods, objects, and classes are covered. Object-oriented programming skills are mastered as students create animations, simulations, and simple versions of their favorite video games.

Computer Programming II (5020) One Credit, Half Block Grades 11, 12

Prerequisite: Computer Programming I or Instructor Approval

This course is for students interested in deepening their programming skills. Students will be exposed to a variety of languages and investigate the pros and cons of each. This is a project-based course that requires students to meet project deadlines and work collaboratively as they hone their programming skills. Focus of the course is on extending understanding of object oriented programming skills that were introduced in programming I.

SOCIAL STUDIES

The social studies curriculum includes courses which help students prepare for active, responsible participation in the world community. Through a study of various social, political, economic, and historical institutions, the social studies curriculum helps develop a better-informed citizenry.

Students will develop skills to deal with social, political and economic problems that will confront them throughout their lives.

Graduation Requirements: Six Credits: One credit from a Behavioral Studies course, One credit from World Studies course, One credit in Economics, Two credits in U. S. History, One credit in U. S. Government or AP Government

Social Studies Courses

Behavioral Studies	World Studies	Required Courses
Psychology	Ancient Greece and Rome *(offered on rotational basis)*	Global Studies
PSY111: Intro to Psychology	20th Century Wars *(offered on rotational basis)*	Economics
Sociology		US History I
Social Psychology		US History II
		US Government or AP US Government

Global Studies (6450) One Credit, Half Block Grade 9
This will be an adventure studying the impact of geography on human history, form the beginning of time to the Modern Era. The curriculum is drawn from the book “Guns, Germs, and Steel”, with supplementary work created at UCLA and Stanford University. This course is required for graduation.

Ancient Greece and Rome (6640) One Credit, Half Block Grades 10, 11, 12
This course examines the dramatic successes and failures of the ancient Greeks and Romans while asking students to consider their impact on later societies, particularly on the founding of the United States. Through the use of both primary and secondary sources, students learn of the arrogance and violence of the Athenian Democracy, the fall of the Roman Republic, and the rise of Emperors.

20th Century Wars (6660) One Credit, Half Block Grades 10, 11, 12
This course invites students to consider how World War I shaped the modern world and influenced events that affect us to this very day. The Great War, the Russian Revolution, the rise of the Nazis, World War II, the Cold War, proxy wars, and the threat of international terrorism will all be explored from various perspectives. Upon completion of the course, students will have a better understanding of how past events shape the world we live in.

Psychology (6530) One Credit, Half Block Grades 10, 11, 12
This course exists to help the students analyze and solve their problems with themselves and others. Basically, it tries to answer the question, "Why do people act the way they do?" Emphasis is placed on the biological and environmental influences on one's behavior, covering areas such as Personality, Sensation and Perception, Principles of Learning, Brain and Behavior, and Memory. The course becomes a valuable tool in helping students manage their lives.

PSY111: Introduction to Psychology (6535) One Credit, Half Block Grades 10, 11, 12

Prerequisites: Students must have one or more of the following: 21 ACT score or higher(11th and 12th grade); 3.0 GPA or higher (10th – 12th grade); Proficiency Lever or higher in all three areas of math, language and reading in the ISASP (10-12th grade); 10th grader must be TAG eligible.

This course is for those students wanting to earn college credit for their psychology class. PSY111 covers the same material as the regular psychology class, but has additional topics such as the life span, altered states of consciousness, motivation and emotion, psychological disorders, conformity, and attitude formation. Students who have already taken the regular Psychology class, may NOT take PSY 111. **Offered for college credit. DMACC Course PSY 111 (3 credits)**

Sociology (6480) One Credit, Half Block Grades 10, 11, 12

Sociology examines the ways people interact with one another and involves learning about relationships with one another. The class also involves learning about relationships with groups, such as your class; relationships in social institutions, such as your family; and the organization of societies, such as your own. Sociology also deals with vital issues and social problems. It is a young and dynamic science which is expanding rapidly all over the world as people seek to better understand themselves and their relationships with others.

Social Psychology (6540) One Credit, Half Block Grades 11, 12

Prerequisite: Psychology and/or Sociology

Social Psychology is a course designed to be a bridge connecting Psychology and Sociology and to offer the opportunity to explore further into both sciences. It takes the psychology question of, "Why are people the way they are?" and expands it with the sociological view of how groups affect individual behavior. The course will cover topics such as the social self, constructing social reality, attribution, attitude, and prejudice and stereotyping. Social Psychology deals with issues that students will face throughout their lives and give them the tools to build their own pathways.

United States History I (6601) One Credit, Half Block Grades 11, 12

United States History I is a survey class that addresses foundational principles and explores American history from the 1800s to early 1900s.

United States History II (6602) One Credit, Half Block Grade 11

United States History II is a survey class that addresses foundational principles and explores American history form the early 1900s to the modern era.

United States Government (6800) One Credit, Half Block Grade 12

United States Government is designed to provide students with an analytic perspective on the foundations and evolution of government and politics in the United States. This course is concerned with the nature of the American political system, its development over the past two centuries, and how it continues to function today. Its focus is the structure and function of the Constitution, the principle processes and institutions through which the political system functions, and the creation and implementation of public policy.

Advanced Placement United States Government (6810) One Credit, Half Block Grade 12

Prerequisites: Grade of A- or higher in United States History I & II and Minimum of 3.25 GPA or Instructor Approval

This course will be an advanced study of the United States Government and political systems. This course includes a challenging, focused look at the Constitutional underpinnings of our government, political beliefs and behaviors, public policy, civil rights and liberties, political parties, and other institutions of national government. It is an accelerated class with a curriculum based upon preparing students for the advanced placement test. The advanced placement tests are given in May.

Economics (6490) One Credit, Half Block Grades 11, 12

This course is a survey of economics that addresses macro- and microeconomic principles. The class is organized around major economic concepts with activities that relate to a variety of market situations and government economic issues on a domestic and international level. We will focus on how we fit into a world of infinite wants, but limited resources.

Criminal Justice (0601, 0602) Five Credits, Block PLUS Grades 11, 12

Prerequisite: Sociology OR Psychology and four credits in science

This is a DMACC ACADEMY offering. Students must register for the full year. The Criminal Forensics program introduces students to criminal law and crime scene investigation and prepares students for entry level into the criminal justice field. Sixteen DMACC credits are available upon completion of all DMACC Career Academy course offerings. ***Times: 7:30-9:30AM or 1:15-3:15PM***

SPECIAL EDUCATION

Special Education provides educational opportunities for those students who have qualified for these services. Goals are set at a staffing, and an individualized educational plan is developed by a team that includes the parents, student, the Area Education Agency team, an administrator, the Special Education teacher, the classroom teacher and other support personnel. Through an ongoing monitoring and reassessment process, the student is provided those experiences which will lead to the full realization of each one's capability in regard to academic ability, social skills and vocational/career interests. Registration for special education courses will be conducted during individual conferences with the respective teachers.

Learning Skills (7221, 7222, 7223, 7224), Half Credit, Half Block Grades 9, 10, 11, 12
THIS IS NOT A STUDY HALL. The Kansas University class, (K.U. Strategies), is a credited class where students will work towards their IEP targeted areas of need, specifically reading, writing, and math. In this class students will receive and practice skill building strategies to improve their academic abilities, which will help them be more successful in the general education environment.

Social Skills (7601, 7602) Two Credits, Half Block Grades 9, 10, 11, 12
Prerequisite: IEP Identified Behavior Goal
This course will help students claim their self-esteem and help identify their individual talents. Students will develop skills for establishing responsibility and accountability. Students will also learn to interact with others in a positive manner.

Experienced Based Career Education 1 (8001, 8002) One Credit, Block Grades 9, 10
This course is designed to acquire skills on learning how to be a good employee. Focus will be centered on communication skills, hygiene skills, and problem-solving skills. Students will have the opportunity to practice working at a variety of job situations within the school building, and at select out of school building opportunities.

Experienced Based Career Education 2 (8010, 8020, 8030, 8040) One Credit, Block Grades 11, 12
Prerequisite: Staffing Team and Teacher Approval.
Experience Based Career Education (EBCE) is an academically based work experience program designed to use the community as a classroom. Career exploration is a major component of the total program. EBCE is designed to allow students the opportunity to explore possible careers and to make them aware of the preparation needed for careers in which they are interested. Students in EBCE are placed at job sites for 1-2 hours per day. The average length of stay at a job site is 9 weeks. Students may experience two or more job sites per semester with a maximum length of stay at one site of 12 weeks. Students have weekly individual meetings with the EBCE Learning Center teacher to relate job site experiences with academic instruction, to evaluate the previous week's work, to plan the following weeks work and to work on career planning.

Extended Core Program (8601, 8602) Non-Credited Grades 9, 10, 11, 12
Prerequisite: Staffing Team Approval
The Extended Core Program at Newton Senior High School serves students that generally require special education instruction on a full-time basis. Functional, life and academic skills will be stressed in the classroom. Those skills may be expanded and practiced through extensive community-based activities. All domain areas will be attempted: academic, vocational, recreation/leisure, community, and domestic. Students will be enrolled in other classes when appropriate depending upon their aptitudes, needs, and interests. Those classes most frequently include either regular or adaptive Physical Education, Music, Art, and Industrial Technology. The student's Individual Educational Program (IEP) will provide direction toward meeting established competency-based graduation requirements.

To be awarded a certificate of completion: Students will be expected to demonstrate progress in accordance with IEP goals related to: Reading, Communication, Mathematics, Consumer Economics, Community Mobility, Vocational Work Experience, Recreation and Leisure, Daily Living Skills, and Hygiene and Grooming. Students meeting these expectations will receive a certificate of completion in lieu of a diploma at the completion of their high school career. A decision regarding earning a high school

certificate of completion will be made, by the team, at any of the student's IEP annuals or reevaluation dates.

Extended Core Skill Courses:

Language Arts Skills (7351, 7352, 7353, 7354) Two Credits, Half Block Grades 9, 10, 11, 12
Extended Core Students Only
This course is designed to enhance student's abilities and build on their prior knowledge in the area of Language Arts. This is a credited class where students will work towards improving their targeted areas of need in language arts and help meet the state core language arts requirements. This course provides individualized student instruction in basic language arts skills. These may include comprehension skills, fluency skills, writing skills, vocabulary skills, and word recognition. Enrollment in this class is considered by teacher approval only.

Math Skills (7411, 7412. 7413. 7414) Two Credits, Half Block Grades 9, 10, 11, 12
Extended Core Students Only
This course is designed to enhance student's abilities and build on their prior knowledge in the area of Mathematics. This is a credited class where students will work towards improving their targeted areas of need in mathematics. This course provides individualized student instruction ranging from basic math skills to the application of mathematical concepts needed to make wiser consumer decisions. Enrollment in this class will be considered by teacher approval only.

Science Skills (7541, 7542, 7543. 7544) Two Credits, Half Block Grades 9, 10, 11, 12
Extended Core Students Only
This course is designed to enhance student's abilities and build on their prior knowledge in the area of Science. This is a credited class where students will work towards reaching the state core science standards. This course provides individualized student instruction in basic science areas. This may include Life Sciences, Earth Sciences, and Physical Sciences. Enrollment in this class will be considered by teacher approval only.

Social Studies Skills (7611, 7612, 7613, 7614) Two Credits, Half Block Grades 9, 10, 11, 12
Extended Core Students Only
This course is designed to enhance student's abilities and build on their prior knowledge in the area of Social Studies. This course provides individualized student instruction in the social studies curriculum. The areas covered may include Geography, History, and Government. This is a credited class where students will work towards reaching the state core social studies standards. Enrollment in this class will be considered by teacher approval only.

Life Skills (7801, 7802) Two Credits, Half Block Grades 9, 10, 11, 12
Extended Core Students Only
This course is designed to enhance student's abilities and build on their prior knowledge in the area of Life Skills. This is a credited class where students will work towards improving their life skills abilities. This course provides individualized student instruction in the Life Skills curriculum area. The areas covered may include grooming, social interactions, preparing meals, and any other areas in individual may need instruction in. Enrollment is this class will be considered by teacher approval only.
Art Skills (8710) Industrial Art Skills (8740) Music Skills (8750) Physical Education Skills (8760) Prerequisites listed above

Reading Skills I (7301, 7302) Two Credits, Half Block Grades 9, 10, 11, 12
Prerequisite for Extended Core students: Teacher and IEP Team Approval.
This course is designed to build on prior knowledge and enhance student's abilities in the area of language arts. The course will provide students with instruction and application practice of the Kansas University Strategies at a level for them to understand, learn, and advance their language arts abilities in Vocabulary, Prediction, Bridging, Thinking/Reading, and Summarization. Students will also receive instruction and application practice in the beginning stages of the Fundamentals of Sentence Writing Strategies and of the Paragraph Writing Strategies. Enrollment in this class will be considered by teacher approval only.

Reading Skills II (7303, 7304) Two Credits, Half Block Grades 9, 10, 11, 12
This course is designed to challenge, build on prior knowledge, and enhance student's abilities in the area of language arts. This course will provide students with instruction and application practice of the Kansas University Strategies at a level where they can understand, learn, and advance their Language Arts abilities. This course will provide instruction in Vocabulary, Prediction, Bridging, Thinking/Reading, and Summarization. Students will also receive instruction and application practice in Fundamentals of Sentence Writing Strategies and Paragraph Writing Strategies. Enrollment in this class will be considered by teacher approval only.

Transition 1 (7901, 7902)
This course is designed to enhance individual student's strengths and preferences. Students will work on discovering what their strengths are, what they need to work on, and what preferences they have for different job situations. In addition, students will connect their abilities to career interests.

Transition 2 (7911, 7912)
This course is designed to enhance the student's ability to research their career path, enhance their ability to use appropriate social skills on the job, and to problem solve on the job. In addition, students will learn how to apply these skills to real life situations.

~ Notes ~

Graduates have more class!