



SCHOOL DISTRICT OF
JANESVILLE
INSPIRE • EMPOWER • ACHIEVE

2026-2027 ACADEMIC & CAREER PLANNING GUIDE

Grades 9 - 12



SCHOOL DISTRICT OF JANESVILLE



Educational Services Center
527 S. Franklin Street
Janesville, WI 53548

Phone: (608) 743-5000 Fax: (608) 743-7491

CRAIG HIGH SCHOOL



Joseph A. Craig High School
401 S. Randall Avenue
Janesville, WI 53545

Phone: (608) 743-5200 Fax: (608) 743-5150
Attendance: (608) 743-5230

Principal: Alison Bjoin	(608) 743-5205	Counselor A-C: Emily Severson	(608) 743-5253
Principal's Secretary: Mallory Blabaum	(608) 743-5210	Counselor D-H: Jessica Zane	(608) 743-5257
Assistant Principal: Shawn Kane	(608) 743-5260	Counselor I-M: Jon Watson	(608) 743-5222
Assistant Principal: Zack Gavin	(608) 743-5270	Counselor N-Se: Janie Sutherland	(608) 743-5255
Dean of Students: Tiffany Redieske	(608) 743-5213	Counselor Sh-Z: Lucas Hanewall	(608) 743-5267
Asst. Principal Secretary: Kelly Zastrow	(608) 743-5262	Student Services Secretary: Heather Last	(608) 743-5251
Athletic Director: Ben McCormick	(608) 743-5245	School Psychologist: Michele Costello	(608) 743-5323
Athletics Secretary: Jolene Hess	(608) 743-5266	School Social Worker: Becky Boylan	(608) 743-5261
Registrar: Jessica Cates	(608) 743-5252		

PARKER HIGH SCHOOL



George S. Parker High School
3125 Mineral Point Avenue
Janesville, WI 53548

Phone: (608) 743-5600 Fax: (608) 743-5550
Attendance: (608) 743-5630

Principal: Chris Laue	(608) 743-5605	Counselor A-F: Sara Ofner	(608) 743-5722
Principal's Secretary: Rita Kettleson	(608) 743-5610	Counselor G-K: Samantha Corrigan	(608) 743-5656
Assistant Principal: Jolene Terrones	(608) 743-5680	Counselor L-R: Denise Kruser	(608) 743-5657
Assistant Principal: Brian Martin	(608) 743-5502	Counselor S-Z: Marcus Martinez	(608) 743-5655
Dean of Students: Jill Riefsnider	(608) 743-5660	Student Services Secretary / Registrar:	(608) 743-5651
Asst. Principal's Sec'y: Connie Stratton	(608) 743-5665	Melissa Phelps	
Athletic Director: Clayton Kreger	(608) 743-5645	School Psychologist: Gina Deutscher	(608) 743-5659
Athletics Secretary: Tonya Lou	(608) 743-5641	School Social Worker: Ebony Duncan	(608) 743-5668

In addition to the two comprehensive high schools, there are three charter school offerings in the School District of Janesville.

ARISE VIRTUAL ACADEMY



Principal: Veronica McMahon

Phone: (608) 743-6129

Fax: (608) 741-7307

<https://www.ariseva.com>

ARISE Virtual Academy is a full-time, online public school that allows students the flexibility to complete their education through a computer-based platform. Courses are taught by certified teachers using a curriculum that meets the Wisconsin state standards. The online classes provide real-life applications and activities, and include honors and Advanced Placement options for high school students.

ROCK RIVER CHARTER SCHOOL



Principal: Dr. Lisa Peterson

Phone: (608) 752-8273

Fax: (608) 741-7308

<https://rockriver.janesville.k12.wi.us>

Rock River Charter School assists students academically, socially, and emotionally in a safe, supportive learning environment while guiding them on their journey to becoming successful adults of good character. A variety of programming options are available to meet individual student needs.

ROCK UNIVERSITY HIGH SCHOOL



Principal: Dr. Patricia Hernandez

College & Career Specialist: Amanda Driscoll

Phone: (608) 743-7426

<https://rockuniversity.janesville.k12.wi.us/>

The mission of Rock University High School is to inspire and empower all students to reach their full potential by providing them a college preparatory learning experience. Rock University High School is a middle college in partnership with Blackhawk Technical College. Middle college is an innovative, contemporary high school model on a college campus which provides the opportunity for students to earn a high school diploma while starting college early and gaining credits toward a certificate or degree. RUHS students will begin college courses early and gradually increase the number of credits throughout the course of four years to graduate with a high school diploma and an associate's degree* from Blackhawk Technical College.

*NOTE: Program changes and pathway selections may impact a student's ability to complete a full associate's degree.

Non-Discrimination

It is the policy of the School District of Janesville that no person be denied admission to any public school in the District or be denied participation in, be denied the benefits of, or be discriminated against in any curricular, extracurricular, pupil service, recreational or other program or activity because of the person's sex, race, color, religion, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, gender identity or physical, mental, emotional or learning disability or handicap as required by state and federal laws.

Children of homeless individuals and unaccompanied homeless youth (youth not in the physical custody of a parent/guardian) residing in the District shall have equal access to the same free, appropriate public education, including comparable services, as provided to other children and youth who reside in the District. Homeless children and youth shall not be required to attend a separate school or program for homeless children and shall not be stigmatized by school personnel.

The District shall provide appropriate educational services or programs for students who have been identified as having a disability, regardless of the nature or severity of the disability. The District shall also provide for the reasonable accommodation of a student's sincerely held religious beliefs with regard to examinations and other academic requirements. Requests for religious accommodations shall be made in writing and approved by the building principal.

The District encourages informal resolution of complaints under this policy. A formal complaint resolution procedure is available, however, to address allegations of violations of the District's nondiscrimination policy.

Any complaint by a student or his/her parent or guardian regarding the interpretation or application of the provisions of Title VI, Title VII, Title IX, Section 504 of the Rehabilitation Act of 1973, or the district's non-discrimination policy shall be processed in accordance with the procedures set forth in Board Policy 5020 and Administrative Regulations 5020.1.

For further information, contact: Sonja Robinson, Coordinator of Student Services
School District of Janesville
527 S. Franklin St. Janesville, WI 53548

ACADEMIC AND CAREER PLANNING GUIDE

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As you develop your long-range plan and select courses for the coming year, there are several important pieces of information that may impact your decisions. Please read the following pages carefully and consider the implications as you choose courses. If you have questions, please contact your Student Services office.

GRADUATION REQUIREMENTS

A student must earn a total of 26.5 credits to receive a diploma from the School District of Janesville. A course that meets five days per week for one semester earns 0.5 credit. Credits must be earned in the following required subject areas:

• English	4.0 credits	
• Mathematics	3.0 credits	
• Social Studies	3.0 credits	(Must include 1.0 US History or AP US History and 0.5 Amer Political Process or AP Government)
• Science	3.0 credits	(Must include 1.0 credit of life science & 1.0 credit of physical science)
• Physical Education	1.5 credits	
• Health Applications	0.5 credit	
• Personal Finance	0.5 credit	
• Freshmen Seminar	0.5 credit	
• <u>Elective Credits</u>	<u>10.5 credits</u>	
TOTAL CREDITS	26.5 credits	(Students must also meet Civics Test requirements)

* **STUDENTS IN THE CLASS OF 2028 AND BEYOND** must complete a government course for graduation. AP US Government & Politics or The American Political Process satisfy this requirement.

****LIFE SCIENCES include:** Biology, Biology Honors, AP Biology, Principles of Biomedical Science, Human Body Systems, Medical Interventions, Anatomy & Physiology, Medical Microbiology, Applied Microbiology, Genetics I, Genetics II, Forensic Science I, Forensic Science II, AP Environmental Science, Animal Science, Plant Science, Intro to Veterinary Science

****PHYSICAL SCIENCES include:** Physical Science, Chemistry, Chemistry Honors, Physics, AP Chemistry, AP Physics I, AP Physics II, Principles of Engineering, Aerospace Engineering

STUDY HALLS:

All students must be in study hall when not scheduled into a regular class. Students may schedule a maximum of one study hall each semester. No credit is earned for study hall. Students who serve as a runner or teacher's aide during their study hall will also not receive credit.

EARLY GRADUATION:

Students wishing to graduate early must complete all required courses and enough electives to equal or surpass the minimum number of credits required for a diploma by the anticipated date of early graduation. Students must also have written approval of their parent or guardian and have completed a minimum of six semesters of high school work. Students must apply at least one semester before the planned date for early graduation. They must consult with their counselor and principal prior to submitting an application. (Board Policy 6310.2)

ADDITIONAL CREDITS:

- Students may recover credits or earn credit through summer school. Contact your counselor for more information.
- If a student would like to take an off-campus, correspondence, or study/travel program course, all credits must be pre-approved with a maximum allowance of 3.0 credits. More than 3.0 credits may be pre-approved as part of the Early College Credit Program or Start College Now, which allow high school students to take college/technical school courses for credit. See your counselor for further information about these programs.



ADVANCED PLACEMENT COURSES

WHAT IS ADVANCED PLACEMENT?

Advanced Placement (AP) is a program created by The College Board that allows students to enroll in college-level courses while in high school and gives them the opportunity to show mastery by taking an AP exam. Most colleges and universities grant placement and course credit to students who obtain qualifying scores on the examinations.

AP EXAM

AP exams are given globally during the first two weeks of May. Every student takes the same exam at the same time. Each exam consists of two sections. Starting in May 2025, standard paper testing will be discontinued. All 28 exams will move to the Bluebook digital testing application. Of the 28 exams, 16 will be fully digital, and 12 will be hybrid digital.

AP SCORES

AP tests are scored using a 1 to 5 scale:

5	Extremely well qualified
4	Well qualified
3	Qualified
2	Possibly qualified
1	No recommendation

Students receive their score report in July. Most Wisconsin technical colleges, colleges, and universities accept AP scores of 3 or above.

BENEFITS OF AP

Students may receive credit, advanced placement or both at most colleges and universities. The amount of credit received varies based on the college, AP score, and subject. Some colleges grant up to six college credits for a score of 5. Students are also able to move into a higher-level class as a college freshman. This not only saves the student time, but also offers a financial savings for each credit earned while in high school. It is possible for a student to take enough AP exams to enter college with a sophomore standing.

COST OF AP EXAMS

Students do have to pay for each exam taken. The cost is approximately \$103 per exam. Students who are eligible to participate in the Federal Free or Reduced-Price Lunch Program will receive a waiver for the exam fee.

AP COURSE OFFERINGS

AP 2-D Design Portfolio	AP Cybersecurity	AP Physics II
AP 3-D Design Portfolio	AP Drawing	AP Precalculus
AP Biology	AP English Language & Composition	AP Psychology
AP Business w/ Personal Finance	AP English Literature & Composition	AP Seminar
AP Calculus AB	AP Environmental Science	AP Spanish Language and Culture
AP Calculus BC	AP European History	AP Spanish Literature and Culture
AP Chemistry	AP French Language and Culture	AP Statistics
AP Chinese Language and Culture	AP Human Geography	AP United States History
AP Computer Science A – JAVA	AP Music Theory	AP US Government Politics
AP Computer Science Principles	AP Physics I	AP World History: Modern

DUAL CREDIT OPTIONS

Dual credit options allow high school students to earn both high school and college credits simultaneously.

TRANSCRIPTED CREDIT via BLACKHAWK TECHNICAL COLLEGE

Transcribed Credit agreements allow School District of Janesville (SDJ) students the opportunity to take BTC courses within their high school as part of their regular class schedule. Classes offered for Transcribed Credit are free of charge to the student and are taught by SDJ teachers who are certified by the Wisconsin Technical College System. These are college courses that will produce a permanent college transcript and GPA that will be recognized by many technical colleges and universities throughout the state of Wisconsin. If you believe that producing a permanent transcript and grade is not in your best interest, please consider requesting a non-TC course. If you need more information about TC, see your counselor before requesting courses.



BLACKHAWK TRANSCRIPTED CREDIT OFFERINGS

TC ECE Foundations of Early Child Education	TC EDU Intro to Educational Practices	TC College Algebra & Trig w/ Apps
TC ECE Health, Safety & Nutrition	TC EDU Overview of Special Education	TC Psychology
TC ECE Infant & Toddler Development	TC Child Development	TC Speech
TC EDU Behavior Management	TC English Composition I	TC Sociology
TC EDU Equity in Education	TC Introductory Statistics	

The School District of Janesville may offer transcribed credit in the above courses based on certified staff employment

TRANSCRIPTED CREDIT via UW-WHITEWATER

University of Wisconsin-Whitewater Partners in Education (PIE) has partnered with the School District of Janesville to deliver an additional dual credit option to students in their familiar high school environment. Students enrolled in PIE will be responsible for paying the tuition, which is about one third of the cost for an undergraduate (approximately \$300). PIE courses are college courses, where earning a grade of 'C' or better provides the student with college credits that appear on an official UW-Whitewater transcript. To enroll, a student must be a junior or senior, and must meet at least one of the following requirements:



- A GPA of at least 3.25 on a 4.0 scale.
- An ACT score of 24 and a class ranking in the top 50%.

Students who qualify for PIE should fill out the PIE online application form, and once they are accepted, can enroll as UW-Whitewater students for the PIE courses offered within this catalog.

UW-WHITEWATER PIE TRANSCRIPTED CREDIT OFFERING

TC Advanced Computer Science AB JAVA

ADVANCED STANDING

Advanced Standing courses are equivalent to a BTC course and are taught by high school teachers. Classes offered for Advanced Standing credit are free of charge and are taught in the local high school. Students who receive a "B" or better in an AS course are awarded technical college credit **only** when they enroll in a program at BTC.



BLACKHAWK ADVANCED STANDING OFFERINGS

AS Automotive Processes	AS ECE Health, Safety, & Nutrition	AS Marketing II
AS Advanced Automotive	AS Entrepreneurship	AS Math for the Workplace
AS Animal Science ES	AS Culinary Arts III A ProStart	AS Medical Terminology
AS Plant Science ES	AS Culinary Arts III B ProStart	AS Welding
AS Foundations of Early Childhood Education	AS Culinary Arts IV A ProStart	AS Welding Fabrication
AS ECE Infant & Toddler Development	AS Culinary Arts IV B ProStart	AS Craftsmen with Character
AS Child Development	AS Principles of Engineering	
AS Computer Applications I	AS Intro to Engineering Design	

START COLLEGE NOW

The Wisconsin [Start College Now Program](#), formerly Youth Options, allows public high school juniors and seniors who meet certain requirements to take post-secondary courses at Blackhawk Technical College. Approved courses count toward high school graduation and college credit.

To be eligible, a student must:

- Be enrolled at a public high school and have completed 10th grade.
- Not have a history of disciplinary problems and/or credit deficiency
- Have the written approval of a parent or guardian.

Applications are due to the district on October 1st for the spring semester and March 1st for the fall semester.

EARLY COLLEGE CREDIT

The Wisconsin [Early College Credit Program](#), formerly Course Options, allows Wisconsin high school students to take post-secondary courses at a Wisconsin public college or a Wisconsin private college if their high school does not offer a comparable course. Approved courses count toward high school graduation and/or college credit. Applications are due on October 1st for the spring semester, February 1st for summer courses and March 1st for the fall semester.

HONORS COURSES

The School District of Janesville offers honors level courses for students who want to be academically challenged. Advantages of enrollment in honors courses include:

- Provides rigorous academic experience
- Better prepares students for post-secondary course work
- Increases competitive edge in gaining entrance into selective colleges
- Potential to earn exemption from entry-level college courses
- Enhances academic preparation for college entrance exams (ACT/SAT)
- Allows students to pursue academic/career interests in more depth

HONORS COURSE OFFERINGS

Accelerated Cantorum Choir- Honors	Accelerated English 9-10- Honors	Geometry- Honors
Accelerated Orchestra- Honors	English 9 – Honors	Algebra II- Honors
Accelerated Wind Ensemble- Honors	English 10 – Honors	Spanish for Heritage Spkrs I- Honors
Biology- Honors	English 11 – Honors	Spanish for Heritage Spkrs II- Honors
Chemistry- Honors	French Lang & Culture IV- Honors	Spanish Lang & Culture IV – Honors
Chinese Lang & Culture IV- Honors	French Lang & Culture V- Honors	Spanish Lang & Culture V- Honors
Chinese Lang & Culture V- Honors	Algebra I- Honors	

WISCONSIN ACADEMIC EXCELLENCE SCHOLARSHIP TIE-BREAKER PROTOCOL

The State of Wisconsin awards an Academic Excellence Scholarship to each high school's top students who attend a Wisconsin public, private, or technical college. Craig and Parker High Schools determine the recipients of these scholarships based on cumulative GPA earned through the first semester of the senior year to comply with state statutes.

In the event of a GPA tie the following criteria will be used:

1. Total number of AP courses
2. Total number of honors courses
3. Composite ACT score
4. If a fourth tie-breaker is needed, a district designee will establish a random selection process.

WISCONSIN TECHNICAL EXCELLENCE SCHOLARSHIP

Technical Excellence Scholarships (TES) are awarded by the State to Wisconsin high school seniors who have the highest demonstrated level of proficiency in technical education subjects. The scholarships are only for use at a school within the Wisconsin Technical College System (WTCS) located within the state. The value of the scholarship is up to \$2,250 per year, to be applied towards tuition. Students wishing to be considered for the TES need to meet eligibility criteria set by the Wisconsin Higher Educational Aids Board (HEAB) and will need to be nominated by their school. More information can be found on HEAB's website at <https://heab.state.wi.us>.

EQUIVALENT COURSE CREDIT

High School equivalent courses are those that have been determined to meet specific criteria through an approved equivalent graduation policy. An "equivalent graduation policy" is defined in Chapter PI 18.02(5) as "A board policy which meets the credit requirements specified for each subject area (§118.33 Wis. Stats.), but which permits selected equivalent courses as long as such courses contain the time allotment and substantially the same objectives to develop the knowledge, concepts, and skills of the course for which an equivalent is proposed." In other words, certain courses that are offered outside of the Math or Science Departments can count as required math or science credits as long as the course curriculum has been approved for equivalent course credit. A student can earn up to one equivalent math (EM) credit towards the math requirement for graduation and up to one equivalent science (ES) credit toward the requirement for graduation.

All equivalent courses will have a specific designation that will be listed next to the course title on the student transcript: (ES) = equivalent for science (EM) = equivalent for mathematics. For example, a veterinary science course taught by an agriculture instructor for a science equivalent credit would be listed on the student's transcript as Veterinary Science (ES).

EQUIVALENT COURSES

AS Animal Science (ES)	Aerospace Engineering (ES)	Computer Programming II (EM)
AS Plant Science (ES)	AP Computer Science Principles (EM)	Digital Electronics (EM)
Intro to Veterinary Science (ES)	AP Computer Science A – JAVA (EM)	TC Advanced Computer Science AB –
Principles of Engineering (ES)	Computer Programming I (EM)	JAVA (EM)

For more specific information regarding program preparation / entrance requirements, contact your school counselor.

SITE SPECIFIC OR DISTANCE LEARNING COURSES

The School District of Janesville may offer a course as a site-specific course or via Telepresence technology. When enrollment does not reach the minimum Board of Education requirement to offer a class at each high school, consideration is given to offer the course at Craig or at Parker only, or via Telepresence. A Telepresence classroom uses technology to link to multiple sites and allows one teacher to conduct a class in multiple buildings simultaneously, minimizing student travel.

If a course is only offered as a site-specific course, it will be scheduled to allow students time to travel. Start times may be changed to accommodate transportation needs or special circumstances. Parents are responsible for providing transportation if a course is site specific. Counselors will notify parents and students who are affected by the site-specific option after the Board of Education approves staffing. If the enrollment drops below Board of Education requirements after students and parents have been notified of the site-specific status, the course may be dropped.

The District CANNOT guarantee the availability of courses that are at the end of a sequence. Enrollment in end of sequence courses must meet district guidelines.

WORK-BASED LEARNING EXPERIENCES

YOUTH APPRENTICESHIP

The Wisconsin Youth Apprenticeship (YA) program is a state-wide initiative for high school juniors and seniors that integrates school-based and work-based learning to instruct students in employability and occupational skills. In this program, students are enrolled in academic classes to fulfill high school graduation requirements in addition to 2-4 semesters of technical courses, which can be offered at the local high school, work site, or Blackhawk Technical College. The last component of the YA program is a paid, work experience in the student's chosen industry under the guidance of a skilled mentor. Students will earn 1.5 credits per semester for the work experience.

A Certificate of Proficiency in the specific program area will be earned if the identified business/industry competencies are completed to the proficiency level identified by the Governor's Work-based Learning Board (GWBLB). Youth Apprenticeship programs available in Janesville are:



- Agriculture Food and Natural Resources
- Architecture and Construction
- Arts, A/V Technology and Communication
- Health Science
- Hospitality, Lodging and Tourism
- Information Technology
- Marketing
- Science, Technology, Engineering and Math
- Transportation, Distribution and Logistics
- Education
- Finance
- Business Administration
- Manufacturing

CO-OP

Co-Op is a skill certificate program for juniors and seniors to help them make connections between school and the world of work. Students participating in Co-Op may choose to do a one or two-year program that combines academic and technical classroom instruction with paid work experience. The Co-Op Program is a joint program between local business and industry company representatives and the School District of Janesville. Upon completion of the Co-Op course, each student will earn a State of Wisconsin certificate. Co-Op programs are available for students in the following areas:

- Agriculture Cooperative Education (A.C.E.)
- Business COOP
- Marketing Education COOP
- Family and Consumer Science FACS COOP
- Industrial COOP Education



JUNIOR / SENIOR INTERNSHIP

The Junior/Senior Internship is designed to provide a challenging opportunity for motivated, responsible students who are ready to direct their own learning. After an initial period of classroom instruction dealing with leadership, ethics, critical and creative thinking, students will gain experience through career exploration in a business, non-profit, government or academic setting. Students will be released during the class period as part of the 50-hour field experience with their professional mentor. Additional contact hours can be arranged as agreed upon by student, teacher and mentor. A detailed log, portfolio and final project are presented at the completion of the course. Prospective students must fill out a statement of interest and obtain teacher recommendations. See instructor for forms.

CRAFTSMAN WITH CHARACTER



The [Craftsman with Character](#) course is designed to run each weekday for two class periods. Four of these days are spent job shadowing, allowing students to be immersed in a culture while gaining knowledge about a trade. The remaining day offers classroom instruction, where students explore their life goals and are encouraged to recognize their unique gifts and talents. Special emphasis is given to helping them recognize their self-worth.

HEALTHCARE HORIZONS

Healthcare Horizons offers a unique opportunity to dive headfirst into the exciting world of healthcare. Following the model of Craftsman with Character, you'll spend four days a week job shadowing professionals like doctors, nurses, medical technicians, and administrators. On the fifth day, we'll shift our focus to personal growth. Discover your values, explore your interests, and develop crucial character traits like empathy and resilience. Healthcare Horizons prepares you for a brighter future by offering opportunities to earn valuable certifications and credentials, gain real-world experience, and build strong character and a positive mindset. Students must hold junior or senior standing to participate.

EXPERIENTIAL LEARNING ACADEMIES

The School District of Janesville has a variety of experiential learning opportunities for students in grades 11 and 12 (Arts Academy is open to all grade levels). Students in these academy models fast forward into their future and are fully immersed in a professional culture, solving real world problems, using industry standard tools, and are mentored by actual employers, all while receiving high school and at times college credit. The School District of Janesville's experiential learning model is an example of how business, community and public education can partner to produce personalized learning experiences that educate the workforce of tomorrow, especially in high skill, high demand jobs.

JANESVILLE BUSINESS ACADEMY

Janesville Business Academy is an innovative education capstone designed to give students hands-on, real-world experiences immersed in a professional setting. Students engage in a rigorous curriculum while also learning valuable skills for high-demand careers. Industry partners provide real project work and opportunities for students to build portfolios and resumes. Students are mentored by professionals with each course integrating guest instructors who discuss course-related content. Students enter the Academy with a strong academic background and leave with skills and experience to lead the next generation workforce. The Janesville Business Academy will be comprised of the following classes:



- JBA Business & Marketing (Yearlong)
- JBA Finance (Semester 1)
- JBA Economics (Semester 2)

Successful completion of the program will earn 0.5 Social Studies credit, and 1.5 elective credits. Juniors who participate in the program will also fulfill their Personal Finance graduation requirement.

PERFORMING ARTS ACADEMY

This pathway provides students interested in the performing arts the opportunity to train with professional staff, to utilize individual creativity, and to prepare for college and career. Students will work both independently and collaboratively while developing a sense of community. Plays and musical theatre productions will serve as opportunities for students to perform and practice technical theatre skills.



- Four periods of the day will be spent in core courses. The remainder of the day will be spent in Performing Arts Academy courses and study.
- All Performing Arts Academy courses take place at Parker High School.
- Students enrolled in Performing Arts Academy take one elective course within the PAC or other elective area of their choice (visual art, foreign language, instrumental music, etc.)
- Students will participate in theatre and musical theatre productions.

ADVANCED CONSTRUCTION STUDENT HOUSE BUILD ACADEMY

This course combines classroom instruction with practical application in a residential home construction project. Students will be "on-site" completing the construction of a home through a partnership with the South-Central Wisconsin Builders Association and the School District of Janesville. Students will learn concrete, framing, insulation techniques, energy saving procedures, green building techniques, electrical, interior and exterior finishes and will be involved with every aspect of a home construction project. Students will have opportunities to work side by side with professionals in the building trades in a "hands on" setting. Students will be required to transport themselves to and from the jobsite daily. Students will be allowed to repeat this previously taken higher level course. The student will work on advanced Tech. Ed. projects within the chosen medium area. A special course of study will be developed by the instructor to meet the student's needs in the development of the Tech. Ed. area s/he has chosen.

ASPIRING EDUCATORS ACADEMY

The Aspiring Educators Academy is designed to give junior and senior students who are interested in the teaching profession a head start toward a career in K-12 education. The Aspiring Educators Academy is appropriate for anyone who hopes to enter the field of education as a teacher, school counselor, librarian, curriculum specialist, or educational support professional. Prior to enrolling in the Academy, students should consider completing the following preparatory courses:

- TC or AS ECE: Foundations of Early Childhood – 1 semester
- TC or AS Child Development – 1 semester
- TC Introduction to Psychology – 1 semester
- TC Introduction to Sociology – 1 semester

The Aspiring Educators Academy consists of four transcribed credit courses that are taken offsite during a two-hour block over the course of a school year (2 courses each semester):

- TC EDU: Behavior Management
- TC EDU: Equity in Education
- TC EDU: Introduction to Educational Practices
- TC EDU: Overview of Special Education

Students who successfully complete the Aspiring Educators Academy during their junior year may wish to participate in some or all of the following related options as a senior:

- Youth Apprenticeship in Education
- ACCT – Assistant Child Care Teacher – 1 semester
- Any preparatory courses (above) not already taken
- TC / AS Infant & Toddler Development – 1 semester
- TC or AS Health, Safety, & Nutrition – 1 semester

Students with a specific interest in Early Childhood / Preschool Education should see their counselor for options.

HIGHWAY CONSTRUCTION SKILLS TRAINING ACADEMY

HCST is a program that helps to fulfill entry-level laborer positions for construction contractors. This public-private model for collaboration successfully prepares Wisconsin students with the skills needed to contribute to the transportation construction industry as laborers and apprentices.

The School District of Janesville has partnered with the State of Wisconsin and the transportation industry to offer the HCST program to high school students. Students who complete the program requirements and meet the age requirement of 18 years old, and have a high school diploma, become eligible for subsidies and other support from the Department of Transportation, including a letter of eligibility for the Operating Engineers Apprenticeship Program.

The core courses included in this virtual academy are part of the Operating Engineers Pre-Apprenticeship program through Destination Career Academy. These courses count towards some requirements students must take after high school to become an Operating Engineer apprentice.

- Operator Engineer Core Courses (Equipment, Grade Math, CDL Prep, etc.)
- OSHA 10 CPR Certification
- Highway Construction On-Site Training Courses



REGISTERING FOR AN EXPERIENTIAL LEARNING ACADEMY

Students who wish to participate in an experiential learning academy should register using the following course codes.

- Janesville Business Academy: **750421, 601342, 660641, 660642** (2 Hours per Semester)
- Performing Arts Academy: **Year 1 – 506071, 506072, 506151, 506152, + Choir, Year 2 – 506031, 506032, 506051, 506052, + Choir, Year 3 – 506041, 506042, 506061, 506062, + Choir, Year 4 – 507031, 507032, 506081, 506082, + Choir** (3 Hours per Semester; students may register for choir at Parker *or* at home school if a Craig student)
- Advanced Construction Student House Build Academy: **783321, 783322** (4 Hours per Semester)
- Aspiring Educators: **522121, 522101, 522132, 522152** (2 Hours per Semester)
- Highway Construction Skills Training Academy: **506200** (1 Hour per Semester)

JANESVILLE GLOBAL SCHOLAR CERTIFICATE

The Global Scholar Certificate is a distinction School District of Janesville students have the opportunity to earn through coursework, experiences and reflections to develop cultural literacy, participation in global activities, and contributions through global service projects. To be considered, students must document those activities and reflections as evidence of meeting the Global Scholar criteria for review by the Global Scholar committee. Names of students whom the committee verifies to have successfully met the Global Scholar criteria will be submitted to the Wisconsin Department of Public Instruction (DPI) for award. Students will receive a Global Scholar Certificate from DPI, will have the Global Scholar designation recorded on their transcripts at the time of graduation, and will receive a Global Scholar pin and cord to wear with their cap and gown.

PROGRAM REQUIREMENTS:

1. Coursework
 - a. Three credits in one world language or evidence of language proficiency at or above Intermediate High on the ACTFL scale. Students who are eligible for English Learner services may meet this requirement through their English Language Development or English Language Arts courses.
 - b. Five credits in courses with global content. One credit may be a fourth year in a student's first world language, or one year of a second world language.
2. Eight Reflections demonstrating cultural literacy development.
 - a. Minimum of four reflections on books
 - b. Minimum of one reflection on film
3. Verification of active participation/leadership in four or more school-based extracurricular and special events with a global focus.
4. A minimum of twenty hours work on a service learning project related to a global issue.

APPLICATION PROCESS:

Students choosing to work towards the Global Scholars Certificate are responsible for all activities and documentation. Qualifying seniors must submit documentation of all requirements, including documentation tracking forms and reflections, via a Google folder.

- Google Folders must be named with the student's first and last name, the label 'GS Application', and graduation year.
- Each document within the folder must also be identified with the student's first and last name.
- The folder and documents must be shared with full editing rights so that they can be shared digitally with members of the review committee.
- Folders should be shared with globalscholars@janesville.k12.wi.us
- Complete folders must be shared by the last day of 3rd quarter prior to graduation.



For forms and details, interested students should contact the Global Scholar Coordinator at their school, or their school counselor. The application and tracking form are also available in the Appendix at the back of this guide.



ADVANCEMENT VIA INDIVIDUAL DETERMINATION

AVID is a comprehensive program that bridges the gap between students' aspirations and their readiness for college and careers. At its core is the AVID Elective, a daily class that builds academic skills, college and career knowledge, and student agency. Beyond the Elective, AVID strategies are integrated schoolwide. Teachers have received training to implement research-based practices that boost student engagement and achievement. AVID fosters a culture of rigor and support across all classrooms.

AVID's mission is to close the opportunity gap by preparing all students for college and career readiness and success in a global society.

The AVID Elective is an academic support class that prepares motivated students – often first-generation college students – in the **academic middle** for success in college and rigorous high school courses. Students must apply and be accepted into the program. Offered during the school day, the class builds essential skills in organization, writing, and critical thinking, while preparing students for advanced coursework. Weekly tutorials help deepen understanding of challenging subjects. Students also explore college and career pathways, setting goals and planning for the future. As part of a broader schoolwide approach, the AVID Elective empowers students to take ownership of their learning and thrive in rigorous academic environments.

The year-long elective focuses on the **WICOR** methodology: **Writing, Inquiry, Collaboration, Organization, and Reading**.

- **Academic Skills:** Students are explicitly taught and required to use **Cornell note-taking** and maintain a comprehensive organizational system (binder/eBinder).
- **Inquiry/Collaboration:** Students participate in **collaborative tutorials** with peers and AVID-trained tutors to address confusion from core subjects using higher-level questioning (e.g., Socratic Seminars).
- **College Readiness:** The curriculum provides focused support for **college applications**, financial aid/scholarship processes, and preparation for **ACT/SAT exams**. Activities include **college visits**, guest speakers, and career exploration to build **student agency** and opportunity knowledge.

AVID Schoolwide:

- **Enhances College and Career Readiness** - AVID fosters a college-going culture and develops essential career readiness skills, preparing students for post-secondary education and careers.
- **Improves Study and Organizational Skills** - AVID focuses on developing students' study and organizational skills through structured support and targeted strategies, enabling students to manage their workload effectively and improve their academic performance.
- **Boosts Student Engagement and Motivation** - AVID equips teachers with tools and strategies to create engaging and motivating learning environments, helping students become more involved and invested in their education.
- **Promotes Access to Rigorous Courses** - AVID ensures all students have access to rigorous courses with the support needed to succeed, providing every student with the opportunity to reach their full potential.
- **Increases Graduation Rates and Attendance** - By creating a supportive and engaging learning environment, AVID helps increase student attendance and graduation rates, ensuring students stay in school and complete their education.
- **Strengthens Family Engagement** - AVID encourages family and community involvement in the educational process, providing opportunities for families to engage and support their children's education, building a strong network of support for students.

AVID helps schools create a more effective and supportive educational environment, leading to better student outcomes.



PROJECT LEAD THE WAY

PLTW programs intentionally align STEM curriculum to real-world challenges and make clear connections for students to understand how the skills they are learning directly connect to their future career.

INTRODUCTION TO ENGINEERING DESIGN (IED)

This course introduces students to the design process and the tools used in product development. Students enrolled in Introduction to Engineering Design will participate in activities that engineers engage in throughout the design cycle, including development of design briefs, sketching, 3D solid modeling and prototyping.

PRINCIPLES OF ENGINEERING (POE)

Principles of Engineering is designed to introduce students to the fundamental skill sets and mathematical applications necessary to be a successful engineer. Utilizing technology to design experiments, students will fabricate products which meet specific industry requirements. Students may also participate in case studies and team projects.

DIGITAL ELECTRONICS (DE)

This course introduces students to the fundamentals and applications of digital electronics, programmable logic controls, and the application of electronic circuits and devices. Students will design and test digital circuitry through a blend of hands-on learning and academic activities.

AEROSPACE ENGINEERING (ASE)

Take to the skies in Aerospace Engineering while learning about flight, space, navigation, unmanned aerial vehicles and aeronautics. Students will explore the world of aerospace engineering through activity-based, project-based and problem-based learning. Students should expect to learn about aviation with hands-on simulators, and will employ engineering and scientific concepts in the solution of real-world aerospace problems.

CIVIL ENGINEERING AND ARCHITECTURE (CEA)

The major focus of this course is completing long-term projects that involve the development of property sites. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of a simulated property, mimicking the experiences that civil engineers and architects face.

COMPUTER INTEGRATED MANUFACTURING (CIM)

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course teaches students about the manufacturing process, product design, robotics, and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge System.

ENGINEERING DESIGN AND DEVELOPMENT (EDD)

The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue, then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on a post-secondary program or career.

PRINCIPLES OF BIOMEDICAL SCIENCES (PBS)

This course provides an introduction to the biomedical sciences through hands-on projects and problems. Students investigate concepts of biology and medicine using a case study approach. They will determine the factors that led to the death of a fictional woman as they sequentially piece together evidence found in her medical history and her autopsy report.

HUMAN BODY SYSTEMS (HBS)

This course allows students to examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments to investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Students build organs and tissues on a skeletal mannequin, work through real-world cases, and play the role of biomedical professionals to solve medical mysteries.

MEDICAL INTERVENTIONS (MI)

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

BIOMEDICAL INNOVATIONS (BI)

Students build on the knowledge and skills gained from previous courses to design their own innovative solutions for the most pressing health challenges of the 21st century.

UNIVERSITY OF WISCONSIN SYSTEM ENTRANCE REQUIREMENTS



All Universities of Wisconsin institutions require a minimum of 17.0 high school credits. Required credits are distributed as follows:

- **CORE COLLEGE PREPARATORY CREDITS: 13.0 Credits**

*Some Universities of Wisconsin Schools recommend exceeding the minimum core college preparatory courses for admission

- English 4.0 Credits
- Mathematics 3.0 Credits
- Social Studies 3.0 Credits
- Science 3.0 Credits

- **ELECTIVE CREDITS: 4.0 Credits**

- Elective credits may be chosen from the above core college preparatory areas, world language, fine arts, computer science, and other academic areas. Some UW System institutions may also accept vocational courses for some of these 4.0 elective credits.
- Although it is not required, Universities of Wisconsin institutions *strongly recommend* students take world language courses.
- Each institution may specify additional credit requirements for the remaining 4.0 credits, and may specify required content for all 17.0 credits. Please work with your school counselor to learn more about specific requirements, or consult the college's website.

The ACT or SAT college entrance exam must be taken in the spring of the junior year. Eleventh graders in the School District of Janesville will take this during the Statewide ACT administration in March.

UNIVERSITIES OF WISCONSIN DIRECT ADMISSIONS:

Beginning in July of 2024 (for the class of 2025), Wisconsin high school students who meet certain academic criteria will receive direct admission to one or more UW System schools for which they qualify without the need to complete an application. Ten UW schools will participate in this new program; UW-Madison, UW-LaCrosse, and UW-EauClaire have opted out and will not offer direct admission. For more information, consult your school counselor.

WISCONSIN TECHNICAL COLLEGE ENTRANCE REQUIREMENTS



Technical college preparation should include a comprehensive high school curriculum to ensure success. The following are recommended high school courses/credits for adequate preparation for a technical college program:

- English 4.0 Credits
- Math 3.0 to 4.0 Credits
- Science 3.0 to 4.0 Credits
- Social Studies 3.0 to 4.0 Credits
- Technical Courses 3.0 to 4.0 Credits

For information specific to your planned course of study, see your counselor.

SCHOOL DISTRICT OF JANESVILLE

COURSE RELATED POLICIES

GRADING SCALE:

Janesville high schools will use the following scale when grading students:

GRADE	PERCENTAGE	RANK POINTS / CREDIT
A	92- 100	4.00
A-	90-91	3.67
B+	88-89	3.33
B	82-87	3.00
B-	80-81	2.67
C+	78-79	2.33
C	72-77	2.00
C-	70-71	1.67
D+	68-69	1.33
D	62-67	1.00
D-	60-61	0.67
F	0-59	0.00

Please note that students who are enrolled in a Transcribed Credit course may receive a different grade on the Blackhawk Technical College transcript than what appears on the high school transcript. The articulation agreement between the School District of Janesville and Blackhawk requires that the BTC grading scale be used to issue the grade for the BTC record. Students will receive a copy of the Blackhawk grading scale on their course syllabus at the beginning of each transcribed course.

LAUDE SYSTEM:

Janesville's Board of Education approved a laude system to recognize student achievement at graduation. The recognition is based on attainment of a predetermined GPA which is calculated at the end of the 7th semester:

***	Cumulative GPA 4.00 – 3.75	Summa Cum Laude (With High Honor)
**	Cumulative GPA 3.74 – 3.50	Magna Cum Laude (With Great Honor)
*	Cumulative GPA 3.49 – 3.25	Cum Laude (With Honor)

The School District of Janesville does not calculate or recognize class rank.

SCHEDULE CHANGES:

Students and their parents are asked to carefully and thoughtfully plan the student's schedule each year. If students realistically consider their abilities, interests, and goals in choosing their courses, it should not be necessary to make schedule changes. Careful planning and good decision making will keep schedule changes to a minimum.

- Schedule changes will not be made because of job or athletics during either first or second semester.
- All students will be scheduled for periods one through eight.
- STUDENTS ARE REQUIRED TO KEEP ALL PERIODS AND TEACHERS AS ASSIGNED.

Reasons for a schedule change (during the first 2-weeks of a semester) include:

1. Teacher/counselor/administrator recommendation for a change based on ability of student
2. Ineligibility to take the course

COURSE DROPS:

If a student is carrying 8.0 credits, he or she may drop one course for a study hall. A student who drops a course in weeks 4 – 12 of a semester for a study hall will receive a "W", or withdrawal, recorded for that course. A student who drops a course after week 12 of a semester will receive a semester grade of "F" for that course.

ACCEPTABLE USE OF TECHNOLOGY (Administrative Regulation 6724.1)

The purpose of the School District of Janesville's technology resources is to support and enhance student learning and achievement in the District. Technology uses that might be acceptable on a personal account through another provider may not be acceptable in an educational environment.

INTERNET SAFETY POLICY FOR STUDENTS (Administrative Regulation 6724.2)

Internet access will be provided to students for the purpose of instruction, accessing information, conducting research, and communicating with others as part of a specific curriculum. Communication on the Internet is often very public in nature. Students are responsible for good behavior in the use of computers and the Internet, just as they are in a classroom or on school property. Parents/guardians may specifically request that their child(ren) not be provided access to the Internet by completing the "School District of Janesville Objection to Using the Internet" form.

High school students must be under on-site supervision when they are on the Internet in school. On-site supervision means the staff member responsible for the student(s) is physically present in the room in which the network is being accessed or utilized by the student(s). Students must have a specific information objective and search strategies in mind before they will be allowed to use Internet resources.

USE OF ARTIFICIAL INTELLIGENCE

I. Purpose of AI in Education

AI tools are intended to **enhance** your learning, not replace it. We encourage the responsible use of AI to:

- **Deepen Understanding:** Help clarify complex topics and provide additional learning resources.
- **Boost Creativity:** Assist with brainstorming ideas and exploring different approaches to projects.
- **Develop Future Skills:** Equip you with the knowledge to critically evaluate and effectively use AI in your academic and future professional lives

II. Student Responsibilities and Acceptable Use of AI

Students are expected to use AI tools honestly and ethically, always following school policies and your teacher's specific instructions for each assignment.

A. When AI Use Is Generally Permitted (with Teacher Guidance): With your teacher's permission or specific instructions, AI can be a valuable aid for tasks such as:

- **Brainstorming and Outlining:** Generating initial ideas or structuring a project.
- **Research Support:** Identifying key concepts or summarizing information from provided sources (always verify accuracy!).
- **Language Refinement:** Checking grammar, spelling, and improving sentence structure.
- **Concept Clarification:** Getting simpler explanations of difficult subjects.
- **Study Aids:** Creating practice questions or study guides.

B. When AI Use Is Prohibited (Academic Dishonesty): Using AI in the following ways is considered **academic dishonesty** and will not be tolerated:

- **Submitting AI-Generated Content as Your Own Original Work:** This is plagiarism. You **must clearly disclose and cite** any AI tools used in your work, as instructed by your teacher. Failure to do so will be treated as a violation of academic integrity.
- **Completing Assignments Entirely with AI:** Using AI to write essays, reports, code, or solve problems that are meant to demonstrate your independent knowledge and skills, unless explicitly allowed for that specific assignment.
- **Cheating on Assessments:** Using AI during tests, quizzes, or any evaluation where individual, unaided work is required.
- **Avoiding Learning:** Using AI to skip the critical thinking or skill development intended by an assignment.
- **Creating Harmful Content:** Generating offensive, discriminatory, bullying, or inappropriate content.
- **Protecting Privacy:** Inputting or sharing any personal, sensitive, or confidential information (about yourself or others) with AI tools.
- **Bypassing Security:** Attempting to use AI to circumvent school network security or content filters.

III. Teacher Guidance and Academic Integrity

Your teachers will provide specific guidance on how and when to use AI for their assignments. They will also teach you about AI literacy, including understanding how AI works, its limitations, and the importance of verifying AI-generated information.

Remember: **Transparency is essential.** When you use AI to assist with schoolwork, you are required to acknowledge it clearly. This demonstrates academic honesty and helps your teacher understand your learning process.

IV. Privacy and Monitoring

If AI tools are provided by the school, we may monitor their use on school devices and networks to ensure compliance with this policy and for educational purposes. This is done in accordance with district privacy policies.

V. Consequences of Misuse

Violations of this AI policy fall under the School District of Janesville's Code of Conduct and Academic Integrity policies. Consequences may include:

- A reduced grade or a failing grade on the assignment.
- Temporary or permanent loss of access to AI tools or school technology.
- Parent/guardian notification.
- Disciplinary actions as outlined in the student handbook (e.g., detention, suspension).

VI. Reporting Concerns

If you encounter inappropriate, harmful, or concerning content while using AI, or if you witness misuse of AI by others, please report it immediately to a teacher, school staff member, or administrator.

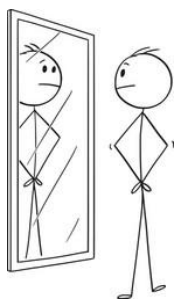
VII. Policy Review

As technology rapidly evolves, this policy will be reviewed and updated regularly to ensure it remains effective and relevant to our educational needs.

By following these guidelines, you can responsibly use AI to enhance your educational growth and contribute to a positive learning environment.

ACADEMIC & CAREER PLANNING: AN OVERVIEW

Academic and Career Planning is intended to equip students and their families with the tools necessary to make informed choices about postsecondary education, training, and careers for life after high school. It is Janesville's vision for every student to graduate high school academically, socially, emotionally, and life ready. Through self-inquiry, career exploration, and informed planning, students make connections between their personal interests, career goals, high school coursework and experiences, and post-secondary options. Throughout the Academic & Career Planning process, students are encouraged to reflect on three main questions to help develop their plan:

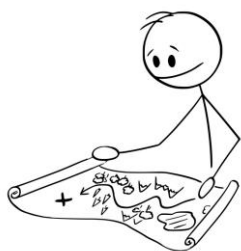
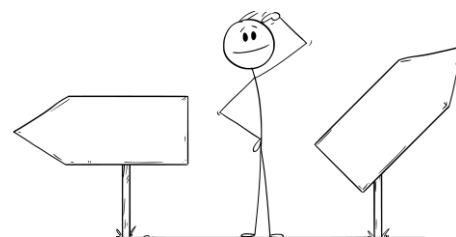


WHO AM I?

- What are my interests?
- What are my strongest abilities?
- What academic, career, or life skills would I like to learn or improve before I graduate?
- Which characteristics for success could I further develop?
- What is my preferred learning style or environment?

WHAT DO I WANT TO DO?

- Which programs of study interest me?
- Are there specific career pathways that I am considering?
- What type of degree or certificate do I need to support my post-secondary goals?
- Will this career choice support what I want for my financial future?
- What courses and experiences are available now that will allow me to further explore my interests?



HOW DO I GET THERE?

- What schools offer a related degree or major?
- What will I need for a competitive admission application?
 - Are there specific classes I should take in high school?
 - What test / scores are required?
- Will I take AP / Dual Credit / Start College Now to get a head start? Will these credits transfer to the school I want to attend?
- What extra-curriculars or work experiences could help me? Are there any credentials I should obtain?
- How much do I anticipate that my post high school education might cost? How will I pay for it? Will I qualify for financial aid or scholarships? Do I have any savings from employment during High School?
- What adults in my life could serve as mentors as I navigate these opportunities for my future?
- Will I need an advanced degree? Can I gain employment in my field while working toward this degree?

To support students in their Academic and Career planning, we have aligned our subject selection handbook using the National Career Cluster Framework. The National Career Cluster Framework provides 16 broad occupational categories based on the similar interests, skill sets, abilities, and activities within each cluster.

- **AGRICULTURE, FOOD & NATURAL RESOURCES**

The Agriculture, Food, & Natural Resources Career Cluster focuses on producing, processing, marketing, distributing, financing, and developing agricultural resources. This cluster includes food, fiber, wood products, natural resources, plants, and animals.

- **ARCHITECTURE & CONSTRUCTION**

The Architecture & Construction Career Cluster is focused on careers in designing, planning, managing, building and maintaining the built environment.

- **ARTS, A/V TECHNOLOGY & COMMUNICATIONS**

The Arts, Audio/Video Technology, & Communications Cluster involves designing, producing, exhibiting, performing, writing, and publishing media content. This cluster includes performing arts, graphic design, journalism, and entertainment.

- **BUSINESS MANAGEMENT & ADMINISTRATION**

The Business Management & Administration Career Cluster includes planning, organizing, directing, and evaluating business functions. The core goal of these jobs is to ensure efficient and productive business operations.

- **EDUCATION & TRAINING**

The Education & Training Career Cluster includes teaching, educational training services, and related learning support occupations.

- **FINANCE**

The Finance Cluster includes jobs that plan and manage finances and investments. Additionally, finance occupations provide services like banking, insurance, accounting, and financial management.

- **GOVERNMENT & PUBLIC ADMINISTRATION**

The Government & Public Administration Career Cluster involves planning and performing government functions at the local, state, and federal levels. This cluster includes governance, national security, foreign service, revenue, taxation, and regulations.

- **HEALTH SCIENCE**

The Health Science Career Cluster involves planning, managing, and providing therapeutic, diagnostic, and health support services. This cluster also includes medical and biotech research.

- **HOSPITALITY & TOURISM**

The Hospitality & Tourism Career Cluster covers the management, marketing, and operations of restaurants, hotels, attractions, recreation events, and travel services.

- **HUMAN SERVICES**

The Human Services Career Cluster relates to human needs like counseling, mental health, personal care, family, community, and consumer services.

- **INFORMATION TECHNOLOGY**

The Information Technology Career Cluster includes careers related to the design, development, support, and management of computer systems. This cluster involves building, maintaining, and repairing hardware, software, and information technology systems.

- **LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY**

The Law, Public Safety, Corrections & Security Cluster includes legal, public safety, protective services, and security fields. This cluster also includes related professional and technical support services.

- **MANUFACTURING**

The Manufacturing Cluster involves planning, managing, and processing materials. This cluster also includes related professional and technical support activities like production planning and control, maintenance, and process engineering.

- **MARKETING**

The Marketing Cluster involves planning, managing, and performing marketing and sales activities to reach an organization's objectives.

- **SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS**

The STEM Cluster involves planning, managing, and executing research, analysis, and technical services. This cluster includes laboratory testing, and research and development in the physical sciences, engineering, and math.

- **TRANSPORTATION, DISTRIBUTION & LOGISTICS**

Transportation, Distribution & Logistics Careers involve the planning, management, and movement of people, materials, and goods. This can be by road, pipeline, air, rail, or water. This cluster also includes related support services like transportation infrastructure planning, logistics services, and equipment and facility maintenance.

CAREER PATHWAYS

Each Career Cluster contains several sub-groupings called Career Pathways. A Career Pathway is a series of connected career and technical education and training opportunities that assist students in their journey toward postsecondary options in a specific career area. This can include high school coursework, dual enrollment opportunities, work-based learning experiences, opportunities to earn industry-recognized credentials, and participation in career and technical student organizations. Within each pathway, students can learn about multiple related careers. There are 79 Career Pathways in the National Career Cluster Framework. Specific Career Pathways are outlined on the next several pages of this guide.

Career Pathways prepare students for post-secondary education and careers. A Pathway is always about both objectives; it is never a choice between one or the other. Career Pathways lead to the full range of post-secondary opportunities. Pathways prepare students for all the avenues they might pursue following high school graduation—two- and four-year college, certification programs, apprenticeships, formal job training, and military service. Each Pathway represents a broad industry theme that can appeal to and engage a student regardless of prior academic achievement and post-secondary aspirations. For many students, the Academic and Career Planning (ACP) process leads naturally to a career pathway.

PROGRAMS OF STUDY

A Program of Study is the specific sequence of instruction provided by a local school/district to accompany a career pathway. The courses and activities included in each Program of Study are based on recommended standards, knowledge and skills that will be necessary for postsecondary success in the chosen area, as well as local opportunities for students to participate in real-world applications.

The School District of Janesville recognizes that each student is unique, and acknowledges that not all students are at the same point on their Academic and Career Planning journey. Student experiences within our Programs of Study will vary based on the goals of the individual student.

- Students who are passionate about pursuing a specific career can pursue opportunities aligned to a single Program of Study.
- Students may choose to blend portions of two or more Programs of Study based on their skills and interests.
- Students who are unsure of their long term career interests can explore opportunities in many different Programs of Study. This will help the student better understand his or her interests and the skills and knowledge needed for different careers.
- Students may also choose a more general approach to their high school education by focusing on the course sequences in each core subject area, while also taking courses in the humanities, fine arts and world languages. This approach defers certain aspects of career exploration to a student's postsecondary education.
- All students are advised to select opportunities for rigor (college level coursework in academic and/or technical subjects) in their areas of strength and/or interest to ensure that they continue to develop their knowledge, skills and dispositions for success each year.

ACADEMIC AND CAREER PLANNING

A student's Academic and Career Plan includes a program of study and learning aligned to a fluid, mapped academic plan that reflects the student's unique set of interests, needs, learning goals, and graduation requirements. It goes beyond the traditional 'four-year plan' by recording the student's connections to the larger community, including examples of community service and volunteerism, membership in community organizations, participation in leadership activities outside of school, involvement in job shadowing, mentorships, or apprenticeships, and the pursuit of skill development through hobbies, athletics, and fine arts.

Throughout their high school careers, all Janesville students are provided with continued learning opportunities to understand a variety of different industries as well as potential career pathways. Students explore multiple relevant ACP topics through required lessons on [Xello](#), and variety of academic, career and technical standards are embedded into SDJ coursework as well. In addition, students meet yearly with their school counselor, another important guide on their ACP path.

AGRICULTURE, FOOD & NATURAL RESOURCES

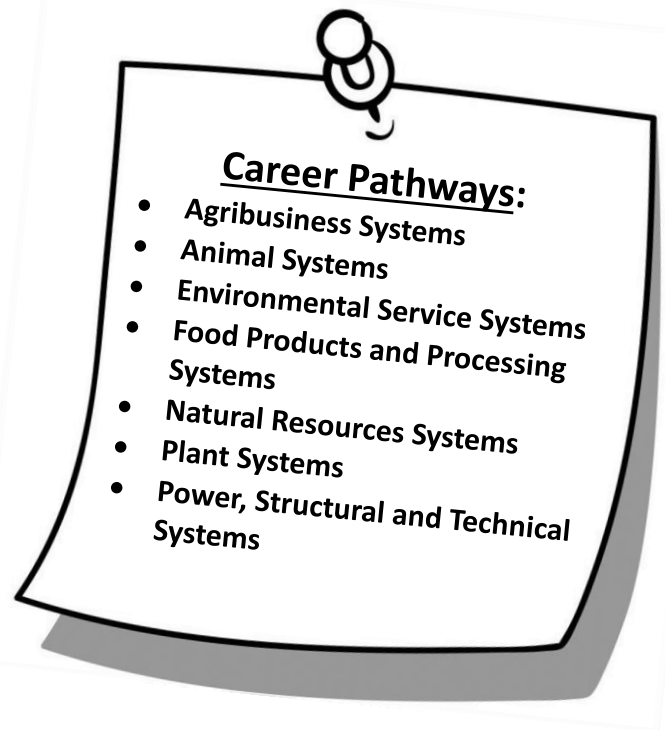
This Career Cluster prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services. This includes food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services.

STUDENT ORGANIZATIONS:

- FFA
- Janesville Schools Outdoor Lab (JSOL) Guides

INDUSTRY CREDENTIALS:

- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY

COURSES

ANIMAL SYSTEMS

People who work in the Animal Systems pathway work to develop better, more efficient ways of producing and processing meat, poultry, eggs and dairy products. They study genetics, nutrition, reproduction, growth and development of domesticated farm animals. Some individuals inspect and grade livestock food products, purchase livestock or work in technical sales or marketing. Others advise agricultural producers on how to upgrade animal housing facilities properly, lower mortality rates, handle waste matter or increase production of animal products, such as milk or eggs. Animal care workers train, feed, water, groom, bathe and exercise animals. They also clean, disinfect and repair their cages.

Small Animal Care 1
Small Animal Care 2
Introduction to Agriculture
Large Animal Care
Introduction to Veterinary Science ES
Pre-Veterinary Medicine
AS Animal Science ES
Agriculture Co-Op
YA – Ag/Food/Natural Resources

PLANT SYSTEMS

People who work in the Plant Systems pathway study plants and their growth. This helps producers of food, feed and fiber crops continue to feed a growing population while conserving natural resources and maintaining the environment. Individuals in this pathway also develop ways to improve the nutritional value of crops and the quality of seeds. They use genetic engineering to develop crops resistant to pests and drought.

Introduction to Agriculture
The Art & Science of Plants
AS Plant Science ES
Agriculture Co-Op
YA – Ag/Food/Natural Resources

NATURAL RESOURCES SYSTEMS

People who work in the Natural Resources Systems pathway perform a variety of tasks from helping to develop, maintain, and manage the forest and natural environment to catching and trapping various types of marine life for human consumption, animal feed, bait and other uses. Forest and rangelands supply wood products, livestock forage, minerals and water; serve as sites for recreational activities; and provide habitats for wildlife. Conservation scientists and foresters manage, develop, use and help protect these and other natural resources.

Introduction to Agriculture
Wildlife Ecology
Field Study in Wildlife Ecology
AP Environmental Science
Agriculture Co-Op
YA – Ag/Food/Natural Resources

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC Speech, TC English Composition, and AP Environmental Science.

AGRICULTURE, FOOD & NATURAL RESOURCES CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
AGRIBUSINESS SYSTEMS				
Farm and Ranch Workers	Agriculture Contact Provider	Agribusiness Management Agribusiness Operations Technology Agriculture Agri-Communications Farm and Ranch Business Management	Agricultural Economics Agribusiness Agricultural Education Agricultural Journalism Hospitality, Restaurant & Tourism Management Professional Golf Management	Agricultural Economics Agriculture Leadership Education Statistics
ANIMAL SYSTEMS				
Animal Caretakers Feed Sales	Ag Dairy Technician Beef Quality Assurance Livestock Production Pork Quality Assurance	Animal Science Equine Industry Management Livestock Industry Management Swine Management Veterinary Technology	Animal Science Biochemistry Grazing Livestock Systems Veterinary Science Veterinary Technologist	Animal Science (Nutrition, Genetics or Physiology) Biochemistry Integrative Biomedical Sciences Veterinary Medicine
ENVIRONMENTAL SERVICE SYSTEMS				
Refuse and Recyclable Material Collection		Environmental Science Laboratory Science Technology	Aquatic Ecology Conservation Biology Environmental Soil Science Environmental Studies Habitat Management Insect Science	Entomology Natural Resource Sciences
FOOD PRODUCTS & PROCESSING SYSTEMS				
Butchers and Meat Cutters Meat Processing Slaughter and Meat Packer	Ag Dairy Technician Commercial Plant Production Food Handlers Permit Quality Control	Agronomy Diversified Agriculture Dietary Management Food Science and Technology Quality Control	Agronomy Animal Science, Food Science & Technology Hospitality, Restaurant & Tourism Management Mechanized Systems Management	Agronomy Animal Science (Meat Science) Food Science and Technology Nutrition
NATURAL RESOURCES SYSTEMS				
		Natural Resources Systems Soil and Water Conservation Wildlife Management	Environmental Soil Sciences Environmental Studies Fisheries and Wildlife Grassland Ecology & Management Natural Resources & Environmental Economics Water Science	Horticulture and Forestry Natural Resources Sciences
PLANT SYSTEMS				
Nursery and Greenhouse Workers Seed Sales Tree Trimmers and Pruners	Commercial Horticulture	Commercial Agronomy Horticulture Crop Production Forestry Landscape/Nursery Sport Turf Technology	Agronomy Biochemistry Diversified Agriculture Studies Grazing Livestock Systems Horticulture Insect Science Plant Protection Sciences	Agriculture Agronomy Biochemistry Entomology Horticulture Horticulture and Forestry
POWER, STRUCTURAL & TECHNICAL SYSTEMS				
Electrician Apprenticeship Plumbing Apprenticeship Welding Apprenticeship	Parts Distribution and Management Parts Sales and Management	Agri-Technology Farm Mechanics Irrigation Technology John Deere Ag Technician Mechanized Agriculture	Agricultural Operations Mechanized Marketing Mechanized Science Mechanized Systems Management Processing Operations	Agricultural and Biological Systems Engineering Mechanized Systems Management

ARCHITECTURE & CONSTRUCTION

This Career Cluster prepares learners for careers in designing, planning, managing, building and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs.

STUDENT ORGANIZATIONS:

- Skills USA
- Engineering Club

INDUSTRY CREDENTIALS:

- OSHA 10
- SP/2 Construction Safety Training Certificate
- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY

COURSES

CONSTRUCTION

Employees in construction literally build our future! These are the people who build and remodel houses, apartments, industrial buildings, warehouses, office buildings, churches, schools and recreational facilities. This pathway also includes the builders of highways, streets, bridges, tunnels and airports as well as power plants, chemical plants, refineries and mills.

English 12
Construction & Woodworking 1
Construction & Woodworking 2
Construction & Woodworking 3
Construction & Woodworking 4—House Build
Theatre Design & Construction
Industrial Co-Op
YA – Architecture & Construction

DESIGN / PRE-CONSTRUCTION

People with careers in design/pre-construction create our future! They turn a concept into a set of plans. Their plans guide other construction professionals as they continue the building process.

PLTW Introduction to Engineering & Design
PLTW Civil Engineering & Architecture
Industrial Co-Op
YA – Architecture & Construction
TC Speech
TC English Composition
AP Calculus AB/BC

World Languages apply to aspects of this pathway and may be required for college entrance.

ARCHITECTURE & CONSTRUCTION CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
CONSTRUCTION				
Carpentry Iron Working Masonry Trades Apprenticeships	Carpentry Construction Management Electrical and Power Transmission Iron Working	Carpentry Construction Management Electrical and Power Transmission Iron Working Architectural Drafting/ Construction Technology	Construction Management	Construction Management Construction Engineering
DESIGN / PRE-CONSTRUCTION				
	Interior Design Surveying Technology	Architectural Drafting/ Construction Technology Interior Design	Architectural Engineering Technology Civil Engineering Technology Interior Design Landscape Architecture	Architectural Engineering Technology Civil Engineering Technology Environmental Design Interior Design Landscape Architecture
MAINTENANCE / OPERATIONS				
Electrical / Electronics Equipment Installation and Repair Grounds-keeping Heating, Air Conditioning, and Refrigeration Technology	Electrical / Electronics Equipment Installation and Repair Grounds-keeping Heating, Air Conditioning, and Refrigeration Technology Facilities Maintenances	Electrical / Electronics Equipment Installation and Repair Grounds-keeping Heating, Air Conditioning, and Refrigeration Technology	Industrial Engineering	

ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Individuals that work in the AV communications industry manufacture, sell, rent, design, install, integrate, operate, and repair the equipment of audiovisual communications. Careers include designing, producing, exhibiting, performing writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

STUDENT ORGANIZATIONS:

- Art National Honor Society
- Tri-M Music Honor Society (Craig)
- Jazz Ensemble
- Spotlighters Show Choir (Craig)
- School Musical
- Drama Guild
- Forensics
- Yearbook – Phoenix (Craig), Valhalla (Parker)
- Newspaper – The Criterion (Craig), The Odin (Parker)

INDUSTRY CREDENTIALS:

- Adobe Certified Associate
- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY

COURSES

TELECOMMUNICATIONS

Telecommunications specialists focus on the interaction between computer and communications equipment. Telecommunications equipment is computerized and can communicate a variety of information, including data, graphics and video. The workers who set up and maintain this sophisticated equipment are telecommunications equipment technicians, installers and repairers.

Graphic Communications 1
Graphic Communications 2
Graphic Communications 3
Advanced Graphic Communications 4
Industrial Co-Op
YA – Arts, A/V Technology & Communication

PERFORMING ARTS

The performing arts pathway is part of a well-rounded education and develops knowledge, skills, and dispositions needed for an occupation involved in performance, composition, conduction, music production, music business, and music education.

Choir – Multiple Options
Band – Multiple Options
Orchestra – Multiple Options
AP Music Theory
Music Technology I & II
Theater Design & Construction
Participation in Parker Arts Academy

VISUAL ARTS

The visual arts pathway develops knowledge, skills, and dispositions needed for artistic creation or interpretation using various materials: oils, watercolors, acrylics, pastels, etc...

Art I
Drawing I & II
Ceramics
Advanced Studio Art Courses
AP Drawing and/or AP Design (2-D / 3-D)

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC Speech, TC English Composition, AP Language, AP Literature, and TC or AP Statistics.

ARTS, A/V TECHNOLOGY & COMMUNICATIONS CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
A/V TECHNOLOGY & FILM				
	Audio and Recording Technology Video Production	Audio and Recording Technology Communications Technology Electronics Industrial Video Production Film/Video Technology	Design and Visual Communications Electrical Engineering Film Studies and Production Mechanical Engineering Telecommunications Management	Electronics Engineering
PRINTING TECHNOLOGY				
Bookbinder and Bindary Worker Graphic and Printing Equipment Operator	Desktop Publishing Digital Publishing Graphic Communication Offset Publishing Web Page Design	Electronic Imaging and Graphics Graphic Design Media Arts Printing Technology Visual Publications	Computer Graphics Graphic Design Industrial Design Printing Management Visual Communication and Design	
VISUAL ARTS				
Photograph Processing Worker	Commercial Art Digital Publishing Graphic Art Multimedia Photography	Commercial Art Graphic Design Interior Design Media Arts Visual Publications	Art History Fashion Design Graphic Design Interior Design Studio Arts Visual Communication	Art History Studio Arts
PERFORMING ARTS				
Movie and Stage Grip Usher and Ticket Taker Movie Projectionist	Musical Instrument Repair Theater Technology Piano Technician	Camera Operation Music Musical Instrument Repair and Tuning Sound Engineering Theater Technology	Arts Administration Composition Dance Music Performance Stage Management Theater Arts Music Therapy Music Education	Music Musical Arts
JOURNALISM & BROADCASTING				
	Certification by the Society of Broadcast Engineers Radio Announcing Radio Production	Audio and Recording Technology Radio/TV Journalism Mass Media/Communications Media Arts	Advertising Broadcasting Journalism News-Editorial Visual Communication	Journalism
TELECOMMUNICATIONS				
	Electronics Technology	Computer and Information Sciences Computer Systems Analysis Electronics Technology in Telecommunications Information Technology	Computer Networking and Telecommunications Electronics Engineering Operations Technology Telecommunications Management	Electronics Engineering Information Technology Telecommunications Engineering

BUSINESS MANAGEMENT & ADMINISTRATION

The Business, Management and Administration Cluster prepares learners for careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.

STUDENT ORGANIZATIONS:

- DECA
- FBLA

INDUSTRY CREDENTIALS:

- Microsoft Office Specialist Certifications
 - Microsoft Word
 - Microsoft Excel
 - Microsoft PowerPoint
 - Microsoft Access
- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY

COURSES

GENERAL MANAGEMENT

General Management focuses on careers that plan, organize, direct, and evaluate all or part of a business organization through the allocation and use of financial, human, and material resources.

Exploring Business & Marketing
International Business
Business Communications
Entrepreneurship
Introduction to Law

ADMINISTRATIVE SUPPORT

Administrative Support facilitate business operations through a variety of administrative and clerical duties including information and communication management, data processing and collection, and project tracking.

Keyboarding
Computer Applications I
Computer Applications II
Digital Media
Business Co-Op
YA–Business Management & Administration

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC Speech, TC English Composition, AP Language, TC or AP Statistics, and Economics.

BUSINESS MANAGEMENT & ADMINISTRATION CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
GENERAL MANAGEMENT				
	Certified Government Auditing Professional Certified Professional Consultant	Agribusiness Business Administration Marketing	Business Administration Entrepreneurship Marketing Finance Hospital Management International Business	Business Administration Management
BUSINESS INFORMATION MANAGEMENT				
	Business Administration Information Technology Office Technology	Business Administration Information Technology Office Technology	Business Administration Information Systems Information Technology Management	Business Administration Information Technology Business Systems Analyst
HUMAN RESOURCES MANAGEMENT				
Human Resources Clerk	Business Administration	Business Administration	Human Resources Management	Business Administration
OPERATIONS MANAGEMENT				
	Business Administration Retail Management	Agribusiness Business Administration	Business Administration Marketing Operations Management	Business Administration
ADMINISTRATIVE SUPPORT				
Administrative Assistant Computer Operator Customer Service Data Entry Specialist	Court Reporting Information Processing Legal or Medical Information Technology Office Administration	Court Reporting Information Processing Legal or Medical Information Technology Office Administration	Information Systems Information Technology Management	

EDUCATION & TRAINING

This Career Cluster prepares learners for careers in planning, managing and providing education and training services, and related learning support services such as administration, teaching/training, administrative support, and professional support services.

STUDENT ORGANIZATIONS:

- FCCLA
- Future Educators Club

INDUSTRY CREDENTIALS:

- ACCT Assistant Child Care Teacher Certification
- Mandated Reporter Training
- Abusive Head Trauma Prevention Training
- Darkness to Light Child Abuse Training
- Spatial Skills and Reasoning Training
- Sleep Baby Safe Training
- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY

COURSES

TEACHING & TRAINING (Early Childhood Strand)

A child's learning experiences in the first eight years of life are crucial to social, mental, and emotional growth and development and future academic success. Working in this field requires patience, creativity, and a desire to make a difference. It also requires keen observation skills, a talent for human insight, and clear communication. Teachers must recognize and respond to individual differences in diverse learners and employ different teaching / training methods that result in learner achievement.

TC ECE: Health, Safety & Nutrition
 TC ECE: Infant & Toddler Development
 TC Child Development
 TC Foundations of Early Childhood Development
 ACCT Assistant Child Care Teacher that will
 Psychology, TC Psychology, or AP
 Psychology
 Sociology or TC Sociology
 FCS Co-Op
 YA – Education & Training

TEACHING & TRAINING (K-12 Strand)

In addition to being knowledgeable in their subject, teachers and trainers must have the ability to communicate, inspire trust and confidence, motivate learners, as well as understand their educational and emotional needs. The School District of Janesville partners with the BTC Foundations of Teacher Education Program, which covers both special education and general education. The program meets Title 1 requirements and is aligned with the Wisconsin Department of Public Instruction (DPI) Paraprofessional Standards and Teacher Standards, and leads to DPI Paraprofessional licensing. Those who complete the program can pursue a career as an Instructional Assistant or Paraprofessional, and BTC degree graduates may apply for a Short-Term Substitute License through the Wisconsin Department of Public Instruction.

TC EDU: Intro to Educational Practices
 TC EDU: Behavior Management
 TC EDU: Equity in Education
 TC EDU: Overview of Special Education
 TC Psychology, Psychology, or AP
 Psychology
 TC Sociology or Sociology
 FCS Co-Op
 YA – Education & Training
 AP US History

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC Speech, TC English Composition, AP Language, and TC or AP Statistics.

EDUCATION & TRAINING CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
TEACHING & TRAINING				
Child Care Worker Coach of Community-based Sports Leagues	Early Childhood Education Assistant Coaching	Early Childhood Education Sign Language Interpreting Education Paraprofessional	Early Childhood Education Elementary Education Middle Level Education Secondary Education Special Education ESL/Bilingual Education Athletic Trainer	Curriculum and Instruction Teaching, Curriculum and Learning Leadership Education Leadership Studies
PROFESSIONAL SUPPORT SERVICES				
	Personal Trainer	Library Technical Assistant	Speech-Language Pathology Social Work Information Science and Technology Special Education and Communication Disorders	Educational Psychology Human Services Instructional Technology School Psychology School Counseling Social Work
ADMINISTRATION & ADMINISTRATIVE SUPPORT				
				Educational Administration Educational Studies Business Administration Administration and Supervision

FINANCE

The Finance Cluster prepares learners for careers in financial and investment planning, banking, insurance and business financial management. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.

STUDENT ORGANIZATIONS:

- DECA
- FBLA
- Investment Club (Craig)

INDUSTRY CREDENTIALS:

- Professional Bookkeeping Certification
- QuickBooks Certification
- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY

COURSES

ACCOUNTING

Accounting encompasses careers that record, classify, summarize, analyze, and communicate a business's financial information/business transactions for use in management decision-making. Accounting includes such activities as bookkeeping, systems design, analysis, and interpretation of accounting information.

Accounting I
Accounting II
Finance & Investing
Business Co-Op – Finance
YA- Finance

FINANCE

The finance pathway develops the knowledge, skills, and dispositions to use investment planning and financial management to produce financial gains for businesses, organizations, and individuals.

Exploring Business & Marketing
AS Entrepreneurship
Business Communications
Finance & Investing
Economics
Business Co-Op – Finance
YA- Finance

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC Speech, TC English Composition, and AP Language, TC or AP Statistics, AP US History, and Computer Applications 1 & 2.

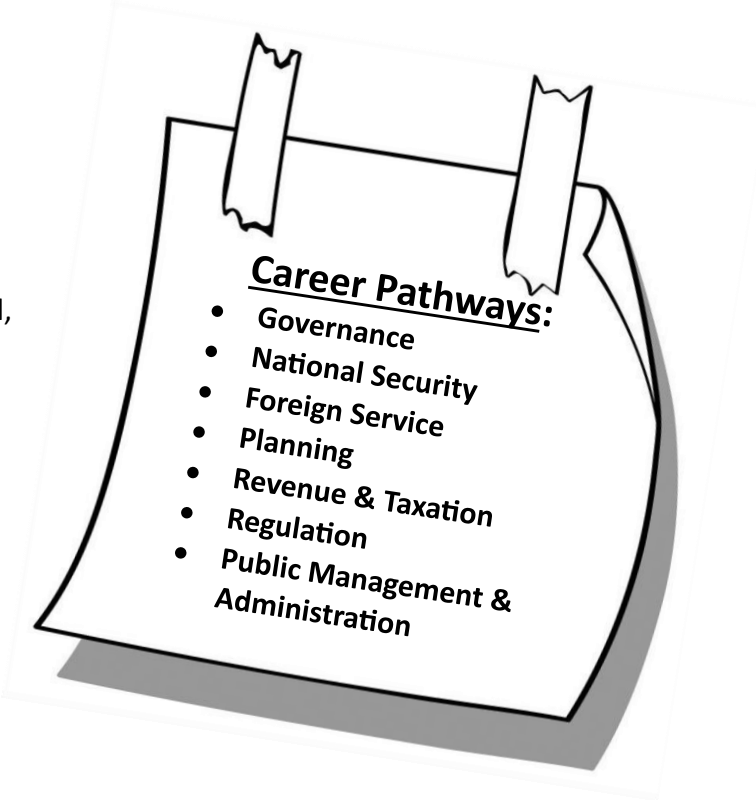
FINANCE CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
SECURITIES & INVESTMENTS				
Payroll Clerk	Chartered Financial Analyst Certified Financial Planner	Agribusiness Business Administration Court Reporting Information Technology Office Administration Office Technology	Accounting Business Administration Finance	Business Administration Management
BUSINESS FINANCE				
		Business Administration International Business Trade and Finance	Business Administration Economics	Accounting and Finance
ACCOUNTING				
Accounting Clerk Bookkeeping Clerk	Business Administration	Business Administration		Accounting Certified Public Accountant
INSURANCE				
Customer Service Agent Processing Clerk	Tax Preparation	Business Administration Property and Casualty Insurance	Mathematics Statistics	Actuarial Science
BANKING SERVICES				
Bank Teller Commodity Banker		Business Administration	Banking and Finance Business Administration Auditor	Banking and Finance Business Administration

GOVERNMENT & PUBLIC ADMINISTRATION

Careers in Government and Public Administration relate to planning and performing government functions at the local, state and federal levels, including governance, national security, foreign service, planning, revenue and taxation, and regulations.

A primary goal of virtually all careers in public service is to help improve the quality of life and livelihood for the citizens represented, while supporting the betterment of the overall community.



STUDENT ORGANIZATIONS:

- Student Council
- Class Officer
- Badger Boys State / Badger Girls State
- Washington Seminar

INDUSTRY CREDENTIALS:

- Global Education Achievement Certificate
- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate

SDJ PROGRAMS OF STUDY	COURSES
LAW & PUBLIC POLICY The law and public policy pathway develops the knowledge, skills, and dispositions to assist in creating policy and programs for the betterment of an organization or community.	Contemporary Issues AP US Government & Politics AP Human Geography AP Psychology Introduction to Law Business Co-Op – Law

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC Speech, TC English Composition, AP Language, AP Literature, TC or AP Statistics, AP Environmental Science, Computer Applications 1 & 2, and Business Communication.

GOVERNMENT & PUBLIC ADMINISTRATION CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
GOVERNANCE				
			Political Science Geography Economics Statistics	Political Science Geography Economics Statistics Research and Methodology
NATIONAL SECURITY				
			Military Science Psychology Electrical or Computer Engineering Foreign Language	Survey, Research and Methodology
FOREIGN SERVICE				
			International Studies Sociology Geography and History International Business Economics Statistics	Survey, Research and Methodology Sociology Economics Statistics
PLANNING				
			Economics Geography Engineering	Community and Regional Planning Economics Architecture Geography Survey, Research and Methodology
REVENUE & TAXATION				
			Accounting Economics Finance Actuarial Science Statistics	Accounting Economics Finance Actuarial Science Family Financial Planning Research and Methodology
REGULATION				
			Food Science and Technology International Business Economics Statistics	Survey, Research and Methodology Food Science and Technology Economics Statistics
PUBLIC MANAGEMENT & ADMINISTRATION				
			Actuarial Science Management Business Administration Economics Statistics	Public Administration Survey, Research and Methodology Actuarial Science Management Economics Statistics

HEALTH SCIENCE

The Health Science Career Cluster connects individuals to a large variety of health care areas that are characterized by diversity and changing technologies. This cluster allows students to investigate and observe a large variety of health care areas. Health Science careers include planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

STUDENT ORGANIZATIONS:

- HOSA

INDUSTRY CREDENTIALS:

- Certified Nursing Assistant (CNA)
- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY

COURSES

THERAPEUTIC SERVICES (Nursing Strand)

Careers in the Therapeutic Services pathway are focused primarily on changing the health status of the patient over time. Health professionals in this pathway work directly with patients; they may provide care, treatment, counseling and health education information.

Health Occupations
AS Medical Terminology
Nursing Assistant (BTC)
Anatomy & Physiology I & II
Human Body Systems
AP Biology
AP Chemistry
FCS Co-Op
YA – Health Science

THERAPEUTIC SERVICES (Medical Doctor Strand)

The therapeutic services pathway develops the knowledge, skills, and dispositions to assist directly with patients through direct care, treatment, counseling, or providing health information.

PLTW Principles of Biomedical Science
Human Body Systems
Anatomy & Physiology I & II
AP Biology
AP Chemistry
Medical Terminology

BIOTECHNOLOGY RESEARCH & DEVELOPMENT

The biotechnology research and development pathway develops the knowledge, skills, and dispositions needed to plan and develop bioscience research by studying diseases to discover new medical device solutions or testing to assist patients.

PLTW Principles of Biomedical Science
PLTW Medical Interventions
Anatomy & Physiology I & II
Medical Microbiology
Applied Microbiology

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC Speech, TC English Composition, AP Language, TC or AP Statistics, AP Human Geography, TC Psychology, and TC Sociology.

HEALTH SCIENCE CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
THERAPEUTIC SERVICES				
Clinical Rotation Dental Assisting Health Aide Medical Assistant	Certified Nursing Assistant Dental Assisting Licensed Practical Nurse Massage Therapy	Dental Hygiene Pre-Medicine Surgical Technology	Athletic Training / Exercise Science Dietetics Pre-Medicine Recreational Therapy Registered Nurse	Clinical Nutrition Dentistry Medicine / Medical Doctor Nurse Anesthetist Pharmaceutical Services Physical Therapist Physician Assistant
DIAGNOSTIC SERVICES				
Clinical Rotation	Electrocardiograph Technology	Cardiovascular Technology Medical Laboratory Assisting Radiology Technologist	Biology Medical Imaging Technology Medical Laboratory Science Nuclear Medical Technology Nutrition	Cardiovascular Technology Diagnostic Radiology Medical Laboratory Science Nuclear Medicine
HEALTH INFORMATICS				
Coding Experience Data Entry Community Service	Health Records Technology Medical Assisting Medical Librarian Medical Transcription	Health Information Technology Medical Coding Medical Office Services	Community Health Health Care Administration Health Education	Health Care Administration Library Science Nursing Administration Public Health
SUPPORT SERVICES				
Central Services Assistant Dietary Manager Electrical/Electronic Equipment Repair	Dietary Management Electrical/Electronic Equipment Repair Medical Office Management Certified Healthcare / Medical Interpreter	Dietary Management Medical Office Management Registered Dietetic Technician	Biomedical Technology Environmental Health & Safety Prosthetic Therapies	Environmental Health Sciences Industrial / Operations Engineering Public Health
BIOTECHNOLOGY RESEARCH & DEVELOPMENT				
	Quality Assurance Technician Quality Control Technician	Clinical Laboratory Medical Laboratory Technician (CLT) Technician (MLT)	Biochemistry Immunology Medical Technology Microbiology Neuroscience	Anatomy Biochemistry Oncology Biology Virology Epidemiology

HOSPITALITY & TOURISM

The Hospitality and Tourism Cluster prepares learners for careers in the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel-related services. Hospitality operations are located in communities throughout the world.

STUDENT ORGANIZATIONS:

- FCCLA

INDUSTRY CREDENTIALS:

- ServSafe Certifications
- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY	COURSES
RESTAURANTS, FOOD & BEVERAGE SERVICES The restaurants and food and beverage services pathway includes workers who perform a variety of tasks to maintain operations and promote guest services in establishments that serve food.	Culinary Arts I Culinary Arts II Global Foods Principles of Baking AS Culinary Arts II ProStart Parts 1 & 2 AS Culinary Arts III ProStart Parts 1 & 2 FCS Co-Op YA – Hospitality & Tourism

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC Speech, TC English Composition, Computer Applications 1 & 2, Business Communication, TC or AP Statistics, AP Environmental Science, TC Psychology, TC Sociology.

HOSPITALITY & TOURISM CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
RESTAURANTS, FOOD & BEVERAGE SERVICES				
Cook Dishwasher Wait Staff	Culinary Arts and Management Dietary Management Food Services/Hospitality Food Service Management		Food Service/Hospitality Food Service Management Hospitality Management Restaurant and Food Service Administration Travel and Tourism	Restaurant/Food Service Administration
LODGING				
Bell Captain Guestroom Attendant Reservationist	Hotel Management	Hotel Management	Business Administration Lodging Management Sales and Marketing	
TRAVEL & TOURISM				
Event Planner Ticket Agent Tour Guide Travel Agent	Business Administration Travel and Tourism	Business Administration Sales and Marketing Travel and Tourism	Business Administration Marketing Operations Management	Business Administration
RECREATION, AMUSEMENTS & ATTRACTIONS				
Museums/Zoo/Aquarium Docent Resort Instructor Theme Parks Retail Manager			Business Administration Management Recreation, Fitness and Leisure Studies Sports and Fitness Management	Business Administration

HUMAN SERVICES

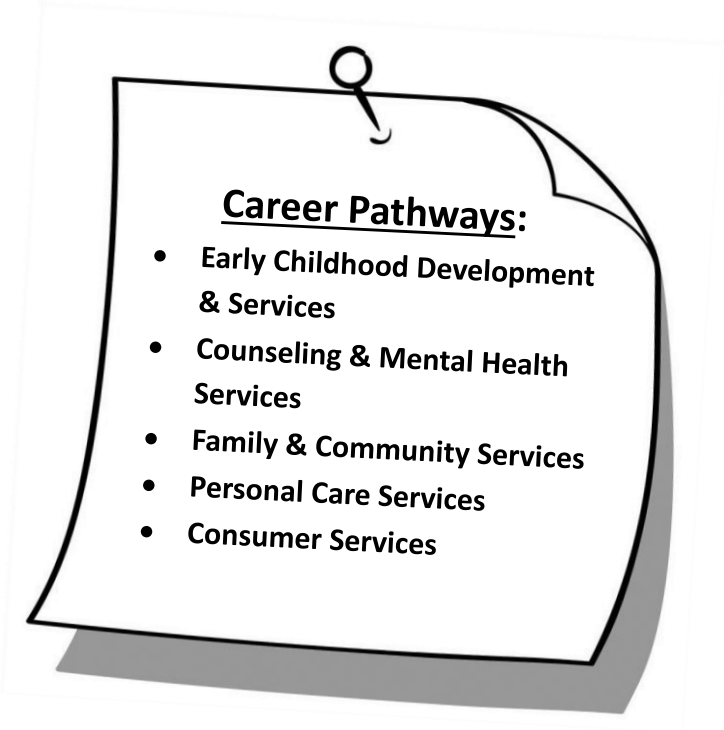
This Career Cluster prepares individuals for employment in career pathways related to families and human needs. This includes preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.

STUDENT ORGANIZATIONS:

- Link Crew
- Teen Leadership (Parker)
- Blue Ribbon of Promise
- HOSA Mental Health Project (Craig)

INDUSTRY CREDENTIALS:

- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY	COURSES
EARLY CHILDHOOD DEVELOPMENT & SERVICES The early childhood development and services pathway includes occupations related to the teaching of infants and young children in child care centers, nursery school preschools, public schools, private households, and before and after-school programs.	TC ECE: Infant & Toddler Development TC ECE: Health, Safety, & Nutrition AP Psychology

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC Speech, TC English Composition, AP Language, Anatomy & Physiology, AP Human Geography, and TC Sociology.

HUMAN SERVICES CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
EARLY CHILDHOOD DEVELOPMENT & SERVICES				
	Nanny Parenting	Early Childhood Education	Family Science Special Education and Communication Disorders	Child Development Early Childhood Education Special Education and Communication Disorders
COUNSELING & MENTAL HEALTH SERVICES				
		Human Services Chemical Dependency Counselor	Human Services Psychology Social Work Human and Social Services Administration	Marriage and Family Therapy Psychology Social Work Community Counseling
FAMILY & COMMUNITY SERVICES				
	Para-educator Family Life Specialist Spirituality Biblical Studies	Human Services Theology	Human Services Psychology Nutrition, Fitness and Health Promotion Gerontology Family Science Social Work	Family Science Psychology Social Work Human Services
PERSONAL CARE SERVICES				
	Barbering Cosmetology Nail Technology Esthetics Massage Therapy	Mortuary Science Cosmetology	Pre-Mortuary Sciences	
CONSUMER SERVICES				
Call Center Customer Service	Certified Financial Planner Wellness		Family Science Family Financial Management Human Services Business Administration	Family Science Human Services Business Administration

INFORMATION TECHNOLOGY

The Information Technology / Computing Career Cluster involves the design, development, support and management of hardware, software, multimedia and systems integration services. In addition to careers in the IT industry, IT careers are available in every sector of the economy – from Financial Services to Medical Services, Business to Engineering and Environmental Services. Anyone preparing for an IT career should have a solid grounding in math and science. It should be noted that there are obvious connections between Information Technology and other programs of study.

STUDENT ORGANIZATIONS:

- Computer Club
- Robotics Club

INDUSTRY CREDENTIALS:

- Microsoft Office Specialist Certifications
- Youth Apprenticeship State Certificate



SDJ PROGRAMS OF STUDY

COURSES

PROGRAMMING & SOFTWARE DEVELOPMENT (General)

Careers in Programming and Software Development involve the design, development, implementation, and maintenance of computer systems and software, requiring knowledge of computer operating systems, programming languages, and software development. People with expertise in programming and software development work with cutting-edge technologies to develop tomorrow's products for use by businesses and consumers. While many of the career opportunities in this area are in software companies, large organizations of other types—such as Financial Services and Business—also offer many opportunities. People with expertise in programming and software development are in high demand, doing work such as creating the software that launches and runs NASA space shuttles.

Computer Programming I
Computer Programming II
AP Computer Science A – JAVA (EM)
AP Computer Science Principles (EM)
YA – Information Technology

PROGRAMMING & SOFTWARE DEVELOPMENT (Game Design)

See general description above.

Computer Programming I
YA – Information Technology

WEB & DIGITAL COMMUNICATIONS

Careers in Web and Digital Communications involve creating, designing and producing interactive multimedia products and services, including development of digitally-generated or computer-enhanced media used in business, training, entertainment, communications and marketing. Organizations of all types and sizes use digital media (the World Wide Web, CD-ROM, DVD) to communicate with existing and potential customers, to track transactions, and to collaborate with colleagues. Web and digital communications experts can find employment opportunities in organizations of all sizes and types, doing work such as creating ebusiness auction Web sites that allow people around the world to buy and sell items in real-time.

Computer Programming I
Web Design
Digital Media
YA – Information Technology

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC Speech, TC English Composition, TC or AP Statistics, AP Calculus AB, AP Physics, and Business Communication.

INFORMATION TECHNOLOGY CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
INFORMATION SUPPORT & SERVICES				
Help Desk Assistant	Electronics Technology Information Technology Microsoft Certified Database Administrator Microsoft Office Specialist Oracle Certified Professional Cyber Security Specialist Information Security Engineer	Helpdesk / Microcomputer Support Information Technology Computer Information Systems Database Support Technical Support	Computer Information Systems Management Information Systems Mass Communication / Media Studies Web/Multimedia Management	Computer Information Systems Computer Science Management Information Systems
NETWORK SYSTEMS				
	Cisco Training Electronics Technology Information Technology Network Engineer Technical Support Specialist Technology Solutions Engineer	Computer and Information Sciences Computer Technology Electronics Technology Information Technology Networking Technology	Computer Science Computer Engineering Computer Systems Analysis Management Information Systems Telecommunications Management	Computer Science Computer Engineering Information Technology Telecommunications Engineering
PROGRAMMING & SOFTWARE DEVELOPMENT				
App Developer	Information Technology Computer Programming	Computer Programming Computer Programming Technology Computer Technology Information Technology	Computer Information Systems Computer Programming Computer Software Engineering Computer Science Management Information Systems	Computer Programming Computer Science Information Resources Management Information Technology System Administration
WEB & DIGITAL COMMUNICATIONS				
Web Designer	Animation Information Technology Multimedia Certified Professional Webmaster	Electronic Imaging Information Technology Interactive Media Media Arts Web Development and Support	Commercial Art Computer and Information Sciences Design and Visual Communication Multimedia Communication	Computer Science

LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

The Law, Public Safety, Corrections and Security Cluster Helps prepare students for careers in planning, managing, And providing legal, public safety, protective services and homeland security, including professional and technical support services.

STUDENT ORGANIZATIONS:

-

INDUSTRY CREDENTIALS:

- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY

COURSES

LAW & PUBLIC POLICY

The law and public policy pathway develops the knowledge, skills, and dispositions to assist in creating policy and programs for the betterment of an organization or community.

- Contemporary Issues
- AP US Government & Politics
- AP Human Geography
- AP Psychology
- Introduction to Law
- Business Co-Op – Law

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC Speech, TC English Composition, TC or AP Statistics, EMT, Anatomy & Physiology, AP US History, and Business Communication.

LAW ENFORCEMENT, PUBLIC SAFETY, CORRECTIONS & SECURITY CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
CORRECTION SERVICES				
Correctional Officer Security Officer	Criminal Justice	Criminal Justice - Corrections Option - Parole Option - Probations Option	Human Services Criminal Justice Social Work Pre-Law	Law and Legal Services Criminal Justice
EMERGENCY & FIRE MANAGEMENT SERVICES				
Police, Fire and Ambulance Dispatch Volunteer Fire Fighting	Emergency Medical Technician (EMT) Basic/ Intermediate/ Paramedic Emergency Management Fire Science Technology Hazardous Materials Technician	Emergency Medical Technician (EMT) Fire Protection Fire Science Technology	Emergency Medical Services	
LAW ENFORCEMENT SERVICES				
Animal Control Parking Enforcement	Criminal Justice	Criminal Justice Law Enforcement	Criminal Justice	Criminal Justice
LEGAL SERVICES				
	Paralegal Studies Certified Court Interpreter	Legal Administrative Assistant Paralegal / Legal Assistant Criminal Justice - Court Emphasis	Paralegal Studies Pre-Law / Legal Studies Criminal Justice	Law and Legal Studies Criminal Justice
SECURITY & PROTECTIVE SERVICES				
		Criminal Justice Law Enforcement	Criminal Justice Law and Legal Studies	Criminal Justice

MANUFACTURING

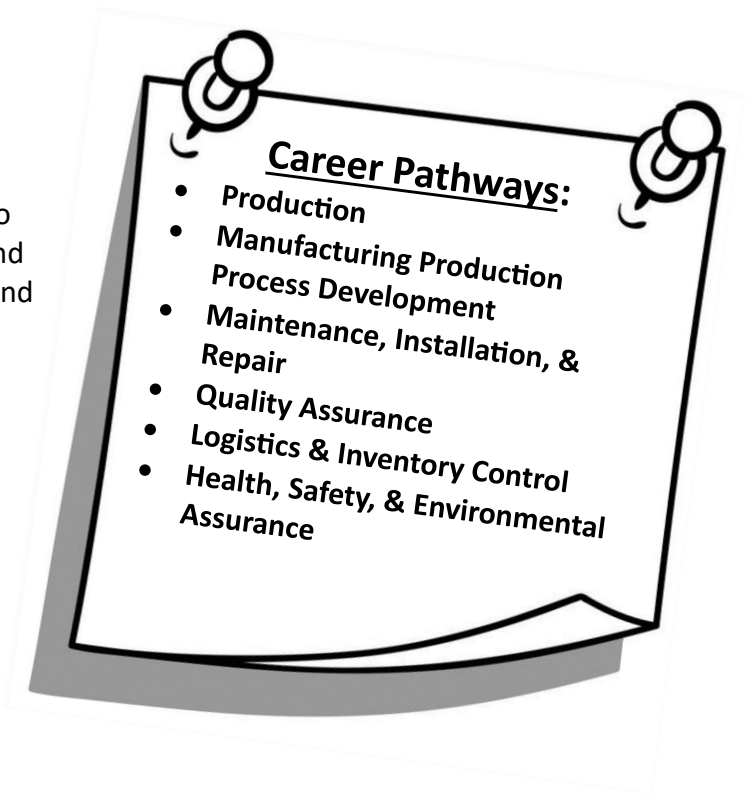
The Manufacturing Career Cluster focuses on planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing / process engineering. There are obvious connections between manufacturing and other programs of study.

STUDENT ORGANIZATIONS:

- Skills USA
- Robotics Club

INDUSTRY CREDENTIALS:

- OSHA 10
- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY

COURSES

PRODUCTION

People with careers in production work on the shop floor making parts or assembling them. They work with machines, making or assembling electronic parts, constructing or assembling modular housing, performing welding jobs, or printing various materials.

- Manufacturing 1
- Manufacturing 2
- Welding 1
- Welding 2
- Manufacturing 3
- Manufacturing 4
- Industrial Co-Op
- YA – Manufacturing
- Craftsman With Character

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC or AP Statistics, TC Psychology, TC Sociology, and Business Communication.

MANUFACTURING CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
PRODUCTION				
Iron Working Precision Production Upholstering and Leather Working Woodworking	Iron Working Precision Production Upholstering and Leather Working Welding	Building Construction Electrical and Electronics Engineering Technology Iron Working	Computational Mathematics Electrical and Electronics Engineering Technology Operations Management	Computational Mathematics Operations Management
MANUFACTURING PRODUCTION PROCESS DEVELOPMENT				
Construction Trades	Construction Trades	Architectural Engineering Technology Automotive Engineering Technology Drafting & Design Technology	Architectural Engineering Civil Engineering Computer Engineering	Architecture Civil Engineering Construction Management and Inspection Transportation and Highway Engineering
MAINTENANCE, INSTALLATION & REPAIR				
Business Machine Technology Custodial Services Electronics Technology	Computer Installation and Repair Electronics Technology Industrial Mechanics Maintenance Technician	Diesel Technology Manufacturing Technology Mechanical Engineering Technology Industrial Maintenance Technician	Biomedical Technology Manufacturing Technology Mechanical Engineering Technology	
QUALITY ASSURANCE				
	Quality Control Technology	Occupational Safety and Health Quality Control Technology	Occupational Safety and Health Quality Control Technology	Occupational Safety and Health
LOGISTICS & INVENTORY CONTROL				
Heavy Equipment Operation Industrial Truck and Tractor Operation Material Handling	Truck Driving Automation 5-Control & Interface	Logistics and Materials Management Industrial Truck and Tractor Operation Transportation, Distribution and Logistics	Logistics and Materials Management Industrial Truck and Tractor Operation Transportation, Distribution and Logistics	Logistics and Materials Management
HEALTH, SAFETY & ENVIRONMENTAL ASSURANCE				
	Occupational Safety and Health	Environmental Engineering Technology Environmental Studies Occupational Safety and Health	Environmental Engineering Environmental Studies Occupational Safety and Health	Environmental Biology Environmental Studies Occupational Safety and Health

MARKETING

This Program of Study prepares learners for careers in planning, managing and performing marketing activities to reach organizational objectives. These include areas such as brand management, professional sales, merchandising, marketing communications and market research.

STUDENT ORGANIZATIONS:

- DECA
- FBLA

INDUSTRY CREDENTIALS:

- A*S*K Certifications
- Student Credit Union
- School Store
- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY

COURSES

MARKETING MANAGEMENT

People with careers in marketing management formulate policies and direct the operations of businesses and corporations, nonprofit institutions and other organizations. In small firms, the owner or chief executive officer may assume all advertising, promotions, marketing, sales and public relations responsibilities. In large firms, which may offer numerous products and services nationally or even worldwide, an executive vice president directs overall advertising, promotions, marketing, sales and public relations policies.

Exploring Business & Marketing
Marketing I
AS Marketing II
International Business
Entrepreneurship
Sports & Entertainment Marketing
Marketing Co-Op
YA- Marketing

MARKETING COMMUNICATIONS

Marketing communications employees plan, coordinate and implement marketing strategies advertising promotion and public relations activities. Because of the importance and high visibility of their jobs, these individuals often are prime candidates for advancement.

Exploring Business & Marketing
Marketing I
AS Marketing II
Sports & Entertainment Marketing
Entrepreneurship
Marketing Co-Op
YA- Marketing

PROFESSIONAL SALES

The professional sales pathway develops the knowledge, skills, and dispositions to convince business individuals to purchase goods and or services.

Exploring Business & Marketing
Marketing I & II
Entrepreneurship
Business Communications
Sports Entertainment & Marketing
Marketing Co-Op
YA- Marketing

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include AP Language, AP Literature, TC or AP Statistics, and Economics.

MARKETING CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
MARKETING MANAGEMENT				
Industry and Trade Association Programs Conferences Seminars		Business Administration Entrepreneurship Management Marketing Small Business Management	Business Administration Management Marketing	Master of Business Administration Master of Marketing
PROFESSIONAL SALES				
	Management	Business Business Administration Customer Service Marketing Retail Management Sales Small Business Management	Business Administration Management Marketing	Master of Business Administration Master of Marketing
MERCHANDISING				
		Business Administration Business Marketing Merchandising Sales Customer Service Small Business Management	Business Administration Management	Master of Business Administration
MARKETING COMMUNICAITONS				
	Practitioners Public Relations Public Relations Society of America	Business Marketing Small Business Management	Business Administration Communication Management Marketing Public Relations	Master of Business Administration Master of Marketing
MARKETING RESEARCH				
	Product Vendors Professional and Technical Organizations Software Firms	Business Continued Education for Rapid Technological Advances Marketing	Business Administration Economics Information Science Information Systems Management Marketing	Master of Business Administration Master of Marketing

S.T.E.M.

(SCIENCE, TECHNOLOGY, ENGINEERING & MATH)

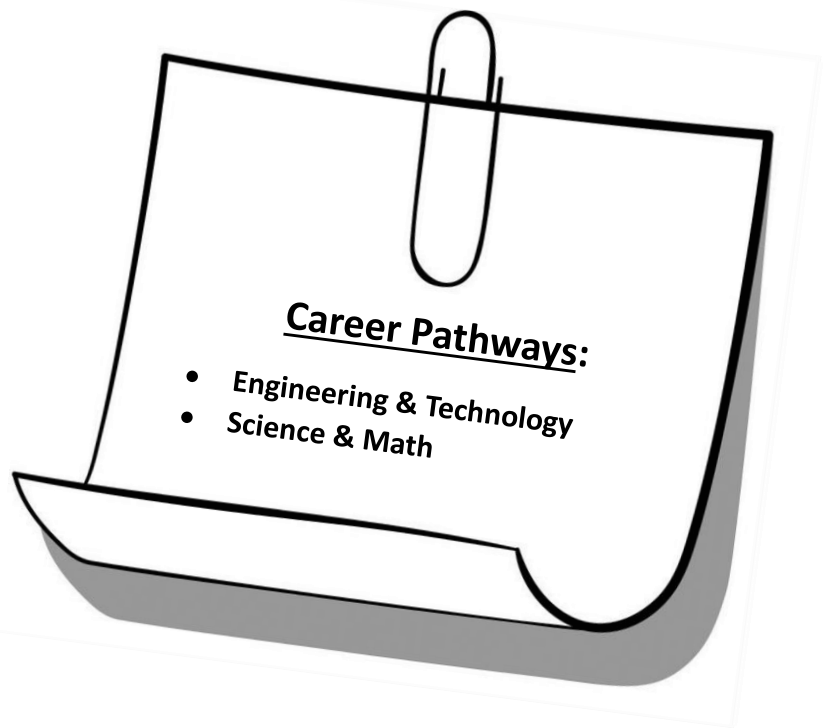
This Career Cluster prepares learners for careers in designing, planning, managing, building and maintaining the building environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs.

STUDENT ORGANIZATIONS:

- Skills USA
- Engineering Club
- National Science Honor Society
- National Math Honor Society (Parker)

INDUSTRY CREDENTIALS:

- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY

ENGINEERING & TECHNOLOGY

For a future in the Engineering and Technology pathway, students should study and apply principles from advanced mathematics, life sciences, physical science, earth and space science, and technology. In addition, future engineers and technologists should learn certain processes in mathematics, science and technology. In Grades 9-12, all future engineers and technologists should study mathematics each year, learning important mathematical concepts and processes defined by the National Council of Teachers of Mathematics in Principles and Standards for School Mathematics. With such knowledge and skills, students will be able to demonstrate the following competencies: 1.) Apply mathematics, science and , technology concepts to solve problems quantitatively in engineering projects involving design, development or production in various technologies; and 2.) Recognize the core concepts of technology and their relationships with engineering, science and math, and other subjects. All future engineers and technologists should learn important science concepts and processes with an understanding of physics, chemistry and biology as a minimal set. These concepts and processes are defined by the National Research Council in the National Science Education Standards and by the American Association for the Advancement of Science in Benchmarks for Science Literacy. Additionally, learners should become proficient in the areas of technology defined by the Standards for Technological Literacy.

COURSES

PLTW: Introduction to Engineering & Design
 PLTW: Principles of Engineering
 PLTW: Civil Engineering & Architecture
 PLTW: Aerospace Engineering
 PLTW: Digital electronics
 Industrial Co-Op
 YA – S.T.E.M.

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC Speech, TC English Composition, TC or AP Statistics, AP Calculus BC, and AP Physics.

S.T.E.M. CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
ENGINEERING & TECHNOLOGY				
	Industrial Technology	Architectural Design Technology Civil Engineering Technology Industrial Technology Surveying and Computer Aided Drafting (CAD)	Agricultural Engineering Biological Systems Engineering Chemical Engineering Construction Engineering Technology Industrial Engineering	Agricultural and Biological Systems Architectural Engineering Chemical Engineering Civil Engineering Mechanical Engineering
SCIENCE & MATH				
		Biology Chemistry Laboratory Science Technology Medical Laboratory Technology	Chemistry Economics Mathematics Molecular Biology Physics	Biochemistry Biological Sciences Chemistry Physics and Astronomy Statistics

TRANSPORTATION, DISTRIBUTION & LOGISTICS

This Career Cluster exposes students to careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, rail and water. It also includes related professional and technical support services such as infrastructure planning and management, logistic services, and the maintenance of mobile equipment and facilities.

STUDENT ORGANIZATIONS:

- Skills USA

INDUSTRY CREDENTIALS:

- SP/2 Construction Safety Training Certificate
- ASE – Automotive Service Excellence Certifications
- NATEF – National Automotive Technicians Education Foundation Certifications
- Youth Apprenticeship State Certificate
- Co-Op Employability Skills Certificate



SDJ PROGRAMS OF STUDY

COURSES

FACILITY & MOBILE EQUIPMENT MAINTENANCE

Careers in the Facility and Mobile Equipment Maintenance pathway include the maintenance, repair, and servicing of transportation facilities, as well as the refueling of mobile equipment. All transportation relies on equipment which must function as designed, whenever needed. The people in this pathway keep the equipment and machinery running while looking for more efficient, safe, and cost-effective ways to do so.

Automotive 1
Automotive 2
PLTW: Aerospace Engineering
AS Automotive 3
AS Automotive 4
Industrial Co-Op
YA–Transportation, Distribution & Logistics
Craftsman With Character

World Languages apply to aspects of this pathway and may be required for college entrance. Additional related courses include TC Speech, TC English Composition, TC or AP Statistics, AP Environmental Science, Physics, and Business Communication.

TRANSPORTATION, DISTRIBUTION & LOGISTICS CAREERS BY PATHWAY

HIGH SCHOOL DIPLOMA ON-THE-JOB TRAINING	CERTIFICATE / LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S / DOCTORAL / PROFESSIONAL DEGREE
TRANSPORTATION OPERATIONS				
Taxi Driving Locomotive Engineering Bus Driving Truck Driving	Air Traffic Control CDL Driver Training Class A/B Commercial Pilot and Flight Crew Training Vehicle and Equipment Operations	Air Traffic Control Commercial Pilot and Flight Crew Training	Air Traffic Control	
LOGISTICS PLANNING & MANAGEMENT SERVICES				
	Business	Business Administration Industrial Technology Logistics and Materials Management	Business Administration Industrial Distribution Industrial Technology Management Technology Operations Management Logistics and Material Management	Engineering Management Industrial and Management Systems Engineering Operations Management
WAREHOUSING & DISTRIBUTION CENTER LOGISTICS				
Shipping and Receiving Storage and Distribution	CDL Driver Training Class A/B Forklift Training	Business Logistics and Materials Management Warehouse Management	Business Logistics and Materials Management	Logistics and Materials Management
FACILITY & MOBILE EQUIPMENT MAINTENANCE				
Auto Body Repair Automotive and Diesel Technology	Auto Body Repair Auto Mechanics Aviation Airframe Maintenance Industrial Maintenance Electronics	Aeronautical and Aerospace Engineering Technology Automotive Technology Aviation Airframe Maintenance Electronic Technology	Engineering Industrial Engineering Mechanical Engineering	Industrial and Management Systems Engineering Mechanical Engineering
TRANSPORTATION SYSTEMS / INFRASTRUCTURE PLANNING, MANAGEMENT, & REGULATION				
		Civil Engineering Surveying and CAD	Aviation Systems Management Civil Engineering Maritime Studies Naval Architecture and Marine Engineering	Civil Engineering Engineering Management Naval Architecture and Marine Engineering
HEALTH, SAFETY, & ENVIRONMENTAL MANAGEMENT				
		Environmental Engineering Technology	Engineering Physics Environmental Engineer Environmental Science Environmental Studies Industrial Engineering	Environmental Engineering Environmental Science Environmental Studies
SALES & SERVICE				
Cashier Customer Service Travel Agent	Desktop Publishing Entrepreneurship Parts, Sales and Management Travel Services	Business Marketing Marketing Management Parts, Sales and Management	Advertising Business Marketing	Advertising Business Marketing

FOUR-YEAR PLANNING WORKSHEET

GRADE 9					
SEMESTER A		CREDITS	SEMESTER B		CREDITS
1	English		1	English	
2	Math		2	Math	
3	Phy Ed / Frosh Seminar		3	Phy Ed / Frosh Seminar	
4	Science		4	Science	
5	Social Studies		5	Social Studies	
6	Elective		6	Elective	
7	Elective		7	Elective	
8	Elective		8	Elective	
Total Credits			Total Credits		

GRADE 10					
SEMESTER A		CREDITS	SEMESTER B		CREDITS
1	English		1	English	
2	Math		2	Math	
3	Phy Ed / Health		3	Phy Ed / Health	
4	Science		4	Science	
5	Social Studies		5	Social Studies	
6	Elective		6	Elective	
7	Elective		7	Elective	
8	Elective		8	Elective	
Total Credits			Total Credits		

GRADE 11					
SEMESTER A		CREDITS	SEMESTER B		CREDITS
1	English		1	English	
2	Math		2	Math	
3	Phy Ed / Personal Finance		3	Phy Ed / Personal Finance	
4	Science		4	Science	
5	Social Studies		5	Social Studies	
6	Elective		6	Elective	
7	Elective		7	Elective	
8	Elective		8	Elective	
Total Credits			Total Credits		

GRADE 12					
SEMESTER A		CREDITS	SEMESTER B		CREDITS
1	English		1	English	
2	Elective		2	Elective	
3	Elective		3	Elective	
4	Elective		4	Elective	
5	Elective		5	Elective	
6	Elective		6	Elective	
7	Elective		7	Elective	
8	Elective		8	Elective	
Total Credits			Total Credits		

If a student is unable to pay a course fee or obtain appropriate equipment for a class, contact a school counselor or administrator.

INTERDISCIPLINARY STUDIES

In Interdisciplinary courses, students combine learning from multiple disciplines to come up with new ways to think about issues and solve problems. These courses allow students to transfer skills and knowledge acquired in one area to another.

ASPIRING EDUCATORS ACADEMY Grades: 11, 12 SDJ Credits: 2.0 Length: Year Prerequisites: None; See Suggested Preparatory Courses on Page 13 ~~~~ TC EDU: BEHAVIOR MANAGEMENT Course Number: Semester A: 522121 TC EDU: INTRODUCTION TO EDUCATIONAL PRACTICES Course Number: Semester A: 522101 TC EDU: EQUITY IN EDUCATION Course Number: Semester B: 522132 TC EDU: OVERVIEW OF SPECIAL EDUCATION Course Number: Semester B: 522152	The Aspiring Educators Academy is designed to give junior and senior students who are interested in the teaching profession a head start toward a career in K-12 education. The Aspiring Educators Academy is appropriate for anyone who hopes to enter the field of education as a teacher, school counselor, librarian, curriculum specialist, or educational support professional. Students will earn 2 full credits by participating in the Aspiring Educators Academy. Students must enroll in 4 separate courses that make up the entirety of the program; (1) TC EDU: Behavior Management, (2) TC EDU: Introduction to Educational Practices, (3) TC EDU: Equity in Education, and (4) TC EDU: Overview of Special Education. Students who participate in the program during their junior year may choose to extend their learning during their senior year through a Youth Apprenticeship in Education, ACCT Assistant Child Care Teacher certification, or other Early Childhood Education offerings.
JANESVILLE BUSINESS ACADEMY Grades: 11, 12 SDJ Credits: 2.0 Length: Year Prerequisites: 1.5 credits in Business & Marketing, to include Marketing I and/or Consent of Instructor ~~~~ JBA BUSINESS & MARKETING Course Number: Semester A: 660641 AND Semester B: 660642 JBA FINANCE Course Number: Semester A: 750421 JBA ECONOMICS Course Number: Semester B: 601342	Janesville Business Academy is an innovative education capstone designed to give students hands-on, real-world experiences immersed in a professional setting. Students engage in a rigorous curriculum while also learning valuable skills for high-demand careers. Industry partners provide real project work and opportunities for students to build portfolios and resumes. Students are mentored by professionals with each course integrating guest instructors who discuss course-related content. Students enter the Academy with a strong academic background and leave with skills and experience to lead the next generation workforce. Students will earn 2 full credits by participating in the Janesville Business Academy. Students must enroll in 3 separate courses that make up the entirety of the course; (1) JBA Business & Marketing, (2) JBA Finance, and (3) JBA Economics. Successful completion of the program will earn students .5 Social Studies credit and 1.5 Elective credits. Juniors who participate in the program will also have their Personal Finance graduation requirement fulfilled.
EMERGENCY MEDICAL TECHNICIAN (EMT) Grades: 11, 12 SDJ Credit: 2.0 Length: Year (2 Hours per Day) Prerequisites: Must be 17 by December 31st Course Number: MER-531111	Are you ready to start saving lives? The EMT Certification Program is a demanding, double-block course where you get hands-on training in patient assessment, trauma care, and life support, following national standards. You'll earn critical clinical experience and graduate ready to take the national exam (NREMT). Get certified, unlock a high-demand job in pre-hospital medicine, earn college credit toward a paramedic degree, and even qualify for a \$500 cash award after graduation! This is your chance to skip the beginner stage and step directly into an exciting, essential career. <i>This course is taught off-site by Mercy Health System.</i>
CERTIFIED NURSING ASSISTANT (CNA) Grades: 11, 12 SDJ Credit: 1.0 Length: Semester (2 Hours per Day) Prerequisites: Must be 17 by October Course Number: Semester A: MER-725020 Semester B: MER-725020	Ready for a rewarding career where you make a real difference? Enroll in the Certified Nursing Assistant (CNA) Training Program! This intensive 90+ hour course offers classroom lectures and hands-on campus lab experience, culminating in a critical clinical practicum where you'll work directly with patients and residents in healthcare agencies under expert supervision. Successful completion prepares you to sit for the National Nurse Aide Assessment Program (NNAAP) exam, giving you a valuable technical diploma, a certification accredited by the Wisconsin DHS, and an immediate pathway to becoming a vital member of the healthcare community. <i>This course is taught off-site by Mercy Health System or Blackhawk Technical College.</i>

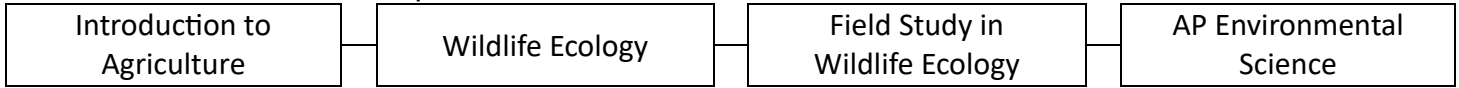
FRESHMAN SEMINAR Grades: 9 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 754021 OR Semester B: 754022	Freshman Seminar is a required course for all 9th grade students. Study skills, self-advocacy and college and career readiness will be areas of focus, as well as other skills that are necessary to be successful in the high school setting. In addition, students in Freshman Seminar will use Xello, a program that will help students develop a four-year educational plan for high school that aligns with their post-secondary goals.
INTERNATIONAL SEMINAR Grades: 10, 11, 12 SDJ Credit: 0.5 or 1.0 Length: Semester or Year Prerequisites: None Course Number: Semester A: 754421 AND/OR Semester B: 754422	International Seminar is intended for students in grades 10-12 who are interested in enhancing their global competency. The course is also intended for F1, tuition-paying international students to fulfill the Freshman Seminar graduation requirement (this course does not replace the Freshman Seminar requirement for Janesville resident, non-immigrant students). As with Freshman Seminar, study skills, self-advocacy, and leadership will be areas of focus with a special emphasis on global competency. Additionally, students will develop or continue to refine a high school educational plan that aligns with their post-secondary goals in this course.
SEMINAR Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 754121 OR Semester B: 754122	Seminar is intended for students in grades 10-12 who have not met the Freshman Seminar requirement. Study skills, self-advocacy and leadership will be areas of focus, as well as other skills that are necessary to be successful in the high school setting. In addition, students in Seminar will use Xello, a program that will help students develop a four-year educational plan for high school that aligns with their post-secondary goals.
JUNIOR / SENIOR INTERNSHIP Grades: 11, 12 SDJ Credit: 0.5 Length: Semester, May be taken for one additional semester Prerequisites: Application & Consent of Instructor Course Number: Semester A: 753111 AND/OR Semester B: 753112	This course is designed to provide a challenging opportunity for motivated, responsible students who are ready to direct their own learning. After an initial period of classroom instruction dealing with leadership, ethics, critical and creative thinking, students will gain experience through career exploration in a business, non-profit, government or academic setting. Students will be released in the eighth period of the day as part of the 50-hour field experience with their professional mentor. Additional contact hours can be arranged as agreed upon by student, teacher and mentor. A detailed log, portfolio and final project are presented at the completion of the course.
LEADERSHIP SKILLS Grades: 9, 10, 11, 12 SDJ Credit: 0.5 or 1.0 Length: Semester or Year Prerequisites: None Course Number: Semester A: 753021 AND/OR Semester B: 753022	The goal of this course is to develop skills in the following areas: team and climate building, organization, leadership, communication, facilitation, as well as personal reflection and prioritizing. Students can expect to develop leadership skills in project planning and execution that requires communication, creativity, critical thinking, and collaboration. Projects will be related to school improvement and provide students with the opportunity to act on their opinions/issues in our community.
PERSONAL FINANCE Grades: 11 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 750121 OR Semester B: 750122	This course is designed to equip high school students with the knowledge and skills necessary to manage their personal finances effectively. Students will learn "real life" skills, which they can use throughout their own lives. Students will learn about investing in a variety of securities (stocks, bonds, mutual funds, etc.). Other topics covered include: careers, post-secondary planning, financial aid, college applications, analyzing pay and benefits, taxes, budgeting, use of banking services, real estate, credit, buying an automobile, buying a home, and insurance. In addition, students will use Xello, a program that will help them develop a four-year educational plan for high school that aligns with their post-secondary goals.
ELEMENTS OF DANCE Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 506251 OR Semester B: 506252	This beginner course introduces the fundamentals of ballet, tap, jazz, musical theater, hip-hop, African dance, and modern dances. The students will focus on developing an understanding of the elements of dance, functional alignment, vocabulary, and organic movement. They will have the opportunity to explore movement through improvisation and beginning dance-making. Students will learn how dance can be incorporated into a healthy lifestyle. This course is open to all students; dance clothes and dance shoes are required.

COACHING AND OFFICIATING SPORTS Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None; Team Sports is recommended Course Number: Semester A: 564341 OR Semester B: 564342	This class will be based strongly on student involvement, but will also include informational discussions, guest speakers, video training, and live practices / games. Students will earn WIAA officiating certifications and be provided an opportunity to officiate youth, middle school and high school sports. Students will have the opportunity to get practical coaching experience in multiple sports, as well as learn all aspects of game operations, including scoring and secondary officiating for various sports. The skills learned are transferable and immediately usable in part time employment capacities. Semester A Primary Sports: Football, Basketball, and Volleyball. Semester B Primary Sports: Basketball, Baseball, Softball, and Soccer.
AVID 9 ELECTIVE Grades: 9 SDJ Credit: 1.0 Length: Year Prerequisites: Application and Instructor Consent Course Number: Semester A: 751421 AND Semester B: 751422	The AVID grade 9 course is an elective class for college-bound students. It provides academic, tutorial, career goal planning, and social support for students through the AVID curriculum with a strategic focus on Writing, Inquiry, Collaboration, Organization, and Reading (WICOR). To ensure success in college-prep courses, students work independently and as partners, as well as in teacher and tutor-led collaborative groups. Note-taking, outlining, writing, speaking, reading, test-taking strategies, maintaining organized binders, self-awareness, and preparation for ACT are stressed. Students receive introductory information and direction regarding AP classes and may participate in AP classes. In addition, the AVID course includes college motivational activities.
AVID 10 ELECTIVE Grades: 10 SDJ Credit: 1.0 Length: Year Prerequisites: AVID 9 Elective Course Number: Semester A: 751431 AND Semester B: 751432	This AVID 10 course continues with the AVID curriculum, advances to more rigorous individual and small-group instruction in support of all the student's academic courses, and college-awareness activities. Instructional emphasis is on writing skills and helping students to successfully write for college. Students continue to receive instruction and practice using Method Test Prep: ACT online prep. Students are given guidance and support in preparation for enrollment in AP classes. AVID tutorials meet individual and group needs for real-time academic support through teacher or tutor-led collaborative work. Tutors serve as role models and as sources of information about college life and expectations. By the end of this course, students are expected to enroll in one or more AP courses.
AVID 11 ELECTIVE Grades: 11 SDJ Credit: 1.0 Length: Year Prerequisites: AVID 10 Elective Course Number: Semester A: 751441 AND Semester B: 751442	The AVID 11 course is an elective class for students who are college bound. To ensure success in college-prep courses, students work independently as well as in teacher or tutor-led collaborative groups. Note-taking, outlining, writing, speaking, reading, test-taking strategies, ACT preparation, and self-awareness are stressed. The course provides college motivational and career exploration activities. Students use problem-solving and decision-making skills. In addition, students work independently and with others in a variety of settings using critical thinking skills to organize information acquired from a variety of sources such as electronic technology and research. By the end of this grade 11 course, students are expected to enroll in at least two or more AP courses.
AVID 12 ELECTIVE Grades: 12 SDJ Credit: 1.0 Length: Year Prerequisites: AVID 11 Elective Course Number: Semester A: 751451 AND Semester B: 751452	AVID Elective 12 is a rigorous college preparatory course designed to help students develop the skills and mindset necessary for success in college and beyond. This course provides students with advanced strategies for critical thinking, problem-solving, and academic research. By the end of this course, students are expected to be well-prepared for the challenges of college-level coursework and to have successfully enrolled in at least two or more Advanced Placement (AP) courses. Key Focus Areas: College Readiness, Advanced Academic Skills, Critical Thinking and Research, Collaborative Learning, Self-Awareness and Motivation.

AGRICULTURAL SCIENCES

Agriculture courses are not suggested for a particular grade level, and in many cases, multiple courses may be taken in one academic year, however, recommended sequences are listed below.

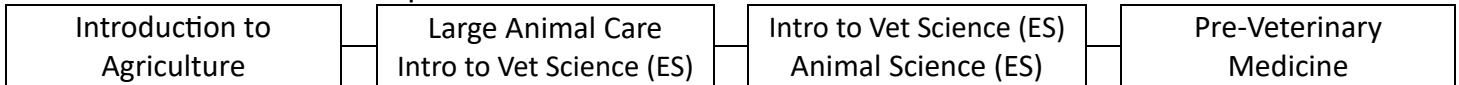
Wildlife & Natural Resources Course Sequence:



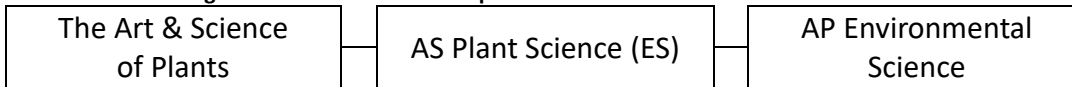
Veterinary or Vet Tech Course Sequence:



Domesticated Farm Animals Course Sequence:



Greenhouse Management & Plants Course Sequence:



AGRICULTURE CO-OP (A.C.E.)

Grades: 11, 12

SDJ Credit: 1.0

Length: Year

Prerequisites: Currently enrolled in an Agriculture class

Course Number: Semester A: 629621

AND Semester B: 629622

Students who have an agribusiness career objective in mind, or who would like to explore an agribusiness career and enter the work force upon graduation from high school, may be interested in this program. Students will be placed on a job site based upon their interest. For this work experience, students will receive one hour of school release time for job training. Students will take part in FFA career development activities. Students must be enrolled in an Agriculture class to enroll in this course.



AS ANIMAL SCIENCE (ES)

Grades: 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: Small Animal Care

Course Number: Semester A: 621521

OR Semester B: 621522

This course is designed to give students an advanced knowledge of production animals and the science that surrounds the industry. Students will learn about the structural functions of reproduction, digestion, nervous, muscular and endocrine systems. Students will gain an understanding of technical areas such as growth hormones, artificial insemination, embryo transfer, heat synchronization, and cloning to improve efficient livestock production. Science based inquiry, group collaboration in problem solving, and hands-on laboratories activities will be included. Students can expect to take part in FFA activities.

This course is also offered under Science.

THE ART AND SCIENCE OF PLANTS

Grades: 9, 10, 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: None

Course Number: Semester A: 621211

OR Semester B: 621212

Dive into the science and technology of growing plants in a controlled environment. This course integrates science and technology with practical production skills, covering plant anatomy, environmental factors, the design of modern greenhouse structures and advanced systems like hydroponics. Through hands-on projects like seed germination tests, plant dissections, and floral arrangements, you will master the anatomy and function of plants along with learning the equipment used in the industry. Lastly, you will learn how the floriculture industry was developed and explore diverse career options in agriculture, landscaping, and horticultural production.

FIELD STUDY IN WILDLIFE ECOLOGY

Grades: 10, 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: None, Wildlife Ecology is recommended

Course Number: Semester A: 623221

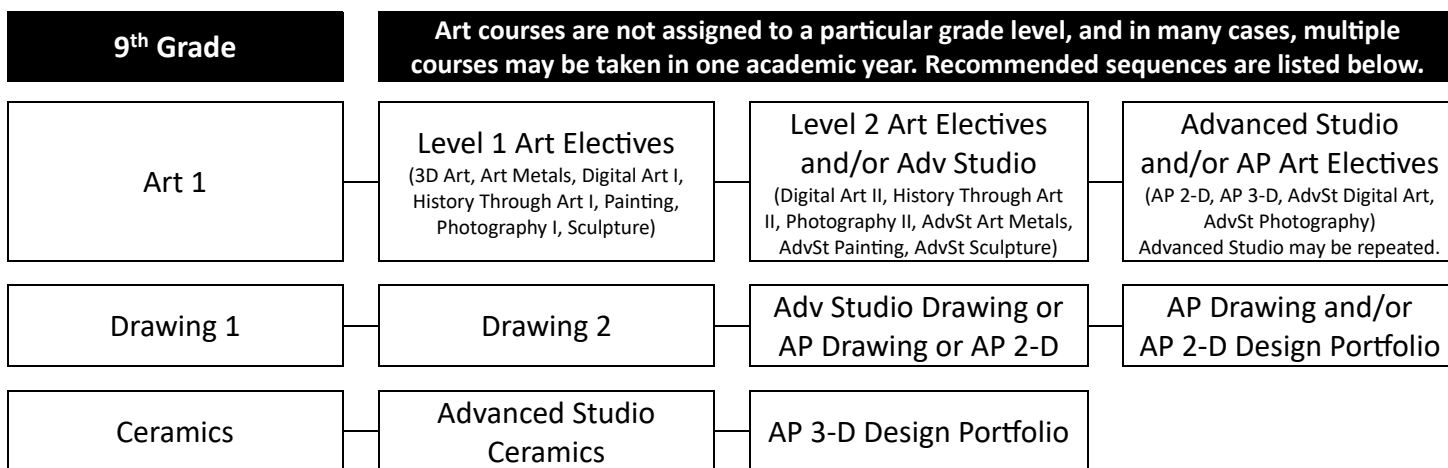
OR Semester B: 623222

This course examines how America's natural resources provide aesthetic, scientific, recreational and economic benefits. Units of study include the principles of habitat, human impact on habitat, waterfowl management, map reading, fish, and careers in wildlife and fishery management. Laboratory skills that are ideal for hunters, outdoor enthusiasts, and environmentalists alike will be taught.

INTRODUCTION TO AGRICULTURE Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 621021 OR Semester B: 621022	Explore the exciting and essential field of Agriculture! This introductory course is your chance to dabble in diverse career paths, from animal and crop production to managing natural resources like water and wildlife. You'll gain practical skills in horticulture, greenhouse, and landscaping, and learn about the processing of meats, dairy, and produce. We will also examine the history of agriculture and the latest advancements in ag technology, along with agribusiness and the role of agriculture in the global market. With hands-on activities, field trips, guest speakers, and the opportunity to join FFA, this course provides the foundation for leadership and a broad understanding of this vital industry.
INTRODUCTION TO VETERINARY SCIENCE (ES) Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Small Animal Care I Course Number: Semester A: 622021 OR Semester B: 622022	This course is designed for students who have a sincere interest in a career related to small animals. If you are planning to become a veterinarian, small animal technician, animal scientist, or animal researcher, then this course is highly recommended. Topics to be discussed include medical terminology, anatomy, careers, safety, diseases, scientific research and animal welfare. Each student will complete hands-on veterinary skills. <i>This course is also offered under Science.</i>
LARGE ANIMAL CARE Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Alternate Year: Offered 2027-2028 Course Number: Semester A: 621921 OR Semester B: 621922	This course is designed to give students advanced knowledge of large farm animals. The production animals that will be covered may include dairy, beef, swine, sheep, horses, or alpacas. This course will provide an understanding of breeds, animal health, nutrition, anatomy, and proper housing. Students will apply the knowledge and skills they have learned about animal production to everyday problems in agriculture. This curriculum offers a combination of laboratory, lecture, and hands-on activities, as well as classroom discussions, demonstrations, notes, and lectures. Guest speakers and field trips may be utilized when appropriate for the lessons.
 AS PLANT SCIENCE (ES) Grades: 11, 12 SDJ Credit: 0.5 Length: Semester B Only Prerequisites: None, Intro to Agriculture and The Art & Science of Plants are recommended Course Number: Semester B: 621622	Students will study the processes involved in plant growth, production and reproduction. The functions of plant structures, as well as crop production and soil science will also be studied. Genetic improvement of plants, plant diseases, plant cultural practices and harvest of crops will be explored in detail. There will be various identifications of crops, weeds and seeds. Students will work in the school greenhouse to complete lab activities.
SMALL ANIMAL CARE AND MANAGEMENT I Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 621721 OR Semester B: 621722	Dive into the fascinating world of small animal care with this hands-on course, perfect for students passionate about companion animals and pursuing careers in the industry. You'll gain practical knowledge of essential topics for caring for species like dogs, cats, and rabbits, focusing on everything from safety and handling to proper feeding and nutrition, including the unique digestion processes of different species. Key topics include anatomy, reproduction, health, behavior, housing, and training techniques, reinforced through engaging hands-on activities and working directly with animals in the classroom.
SMALL ANIMAL CARE AND MANAGEMENT II Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 621821 OR Semester B: 621822	Explore the diverse world of exotic animals in this unique course, focusing on species beyond traditional pets, including reptiles, birds, amphibians, fish, and chinchillas. You'll delve into the classification, history, and characteristics of these animals, mastering essential knowledge on proper housing, equipment, feeding, handling, reproduction, and common diseases. A critical component of the course involves in-depth discussions and debates on animal rights and welfare. Learning is reinforced through hands-on activities, along with handling and care of classroom animals. Enriching experiences, such as guest speakers, field trips to veterinary offices, and visits to research facilities, may be provided.

PRE-VETERINARY MEDICINE Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Introduction to Veterinary Science ES OR Consent of Instructor Course Number: Semester A: 622121 OR Semester B: 622122	This course incorporates the concepts and knowledge of basic veterinary science techniques and puts them into practice. Laboratory skills that are ideal for students interested in the veterinary science field or medical field will be taught. Students are guided through different real-life case studies related to large and small animals. Students will work through medical cases and determine the best treatment, just like a veterinarian would.
WILDLIFE ECOLOGY Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 623121 OR Semester B: 623122	This course explores how America's natural resources offer aesthetic, scientific, recreational, and economic benefits. The topics covered include the principles of fish and wildlife management, ecology, the history of wildlife management, small game, big game, fur-bearing animals, avian predators, upland game birds, game laws and issues, as well as endangered and threatened species.

ART



ADVANCED STUDIO: ART METALS <i>Offered at Craig Only</i> Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Art Metals Course Number: Semester A: 642221 OR Semester B: 642222	Designed for students with a passion and interest in art metals. This course offers an opportunity for the self-motivated artist to advance their design and technical skills in art metals through the advanced exploration of metal as a medium. <i>This course option may be repeated for additional elective credit.</i>
ADVANCED STUDIO: CERAMICS Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Ceramics Course Number: Semester A: 641321 AND Semester B: 641322	Designed for students with a passion and interest in ceramic arts. This course offers an opportunity for the self-motivated artist to advance their design and technical skills in ceramic arts through the advanced exploration of clay as a 3-dimensional medium. <i>This course option may be repeated for additional elective credit.</i>
ADVANCED STUDIO: DIGITAL ART Grades: 11, 12 SDJ Credit: 0.5 or 1.0 Length: Semester or Year Prerequisites: Digital Art I & Digital Art II Course Number: Semester A: 643321 AND/OR Semester B: 643322	Designed for students with a passion and interest in digital art technology. This course offers an opportunity for the self-motivated artist to advance their skills in a variety of digital art techniques. <i>This course option may be repeated for additional elective credit.</i>
ADVANCED STUDIO: DRAWING Grades: 10, 11, 12 SDJ Credit: 0.5 or 1.0 Length: Semester or Year Prerequisites: Drawing I & Drawing II Course Number: Semester A: 640421 AND/OR Semester B: 640422	Designed for students with a passion and interest in drawing. This course offers an opportunity for the self-motivated artist to advance their skills in technical aspects and creativity in drawing and media exploration through a 2-dimensional medium. <i>This course option may be repeated for additional elective credit.</i>
ADVANCED STUDIO: PAINTING Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Painting Course Number: Semester A: 644221 AND Semester B: 644222	Designed for students with a passion and interest in painting. This course offers an opportunity for the self-motivated artist to advance their skills and creativity in painting and media exploration. <i>This course option may be repeated for additional elective credit.</i>

ADVANCED STUDIO: PHOTOGRAPHY Grades: 11, 12 SDJ Credit: 0.5 or 1.0 Length: Semester or Year Prerequisites: Photography I & Photography II Course Number: Semester A: 645221 AND/OR Semester B: 645222	Designed for students with a passion and interest in photography. This course offers an opportunity for the self-motivated artist to advance their technical skills and creativity in traditional and non-traditional photographic experiences. <i>This course option may be repeated for additional elective credit.</i>
ADVANCED STUDIO: SCULPTURE <i>Offered at Craig Only</i> Grades: 11, 12 SDJ Credit: 0.5 Length: Semester B Only Prerequisites: Sculpture Course Number: Semester B: 646222	Designed for students with a passion and interest in sculpture. This course offers an opportunity for the self-motivated artist to advance their design and technical skills in sculptural arts through the advanced exploration of 3-dimensional mediums as an art form. <i>This course option may be repeated for additional elective credit.</i>
AP DRAWING Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Drawing I and Drawing II, or Instructor Consent Course Number: Semester A: 640521 AND Semester B: 640522	The AP Drawing class enables highly motivated students to do college-level work in Studio Art while still in high school. The AP exam for this course is not solely based on a written examination; instead, students must submit a portfolio of work for evaluation at the end of the school year. Guidelines for the AP Drawing Studio Art Portfolios have been designed to encompass a variety of interests and approaches to drawing.
AP 2-D DESIGN PORTFOLIO Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Art I and a 2-D Art course, or Instructor Consent Course Number: Semester A: 649121 AND Semester B: 649122	The AP 2-D Design class enables highly motivated students to do college level work in Studio Art while still in high school. The AP exam for this course is not solely based on a written examination; instead, students must submit a portfolio of work for evaluation at the end of the school year. Guidelines for the AP 2D Design Studio Art Portfolios have been designed to encompass a variety of interests and approaches to design in all 2D media including, but not limited to, Digital Art, Photography, Printmaking, Painting, Mixed Media and Drawing.
AP 3-D DESIGN PORTFOLIO Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Art I and a 3-D Art course, or Instructor Consent Course Number: Semester A: 649221 AND Semester B: 649222	The AP 3-D Design class enables highly motivated students to do college level work in Studio Art while still in high school. The AP exam for this course is not solely based on a written examination; instead, students must submit a portfolio of work for evaluation at the end of the school year. Guidelines for the AP 3D Design Studio Art Portfolios have been designed to encompass a variety of interests and approaches to design in all 3D media including, but not limited to, Ceramics, 3D Art, Sculpture, and Art Metals.
3-D ART <i>Offered at Parker Only</i> Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Art I Course Number: Semester A: 641421 AND Semester B: 641422	This upper-level art course offers an opportunity for students who wish to create three-dimensional art. Students will explore the element of form using a variety of materials such as clay, plaster, wood, and metals. Students are encouraged to explore individual styles while producing a diverse body of three-dimensional work. We will be covering everything from sculpting the human form to abstract sculpture and jewelry making.

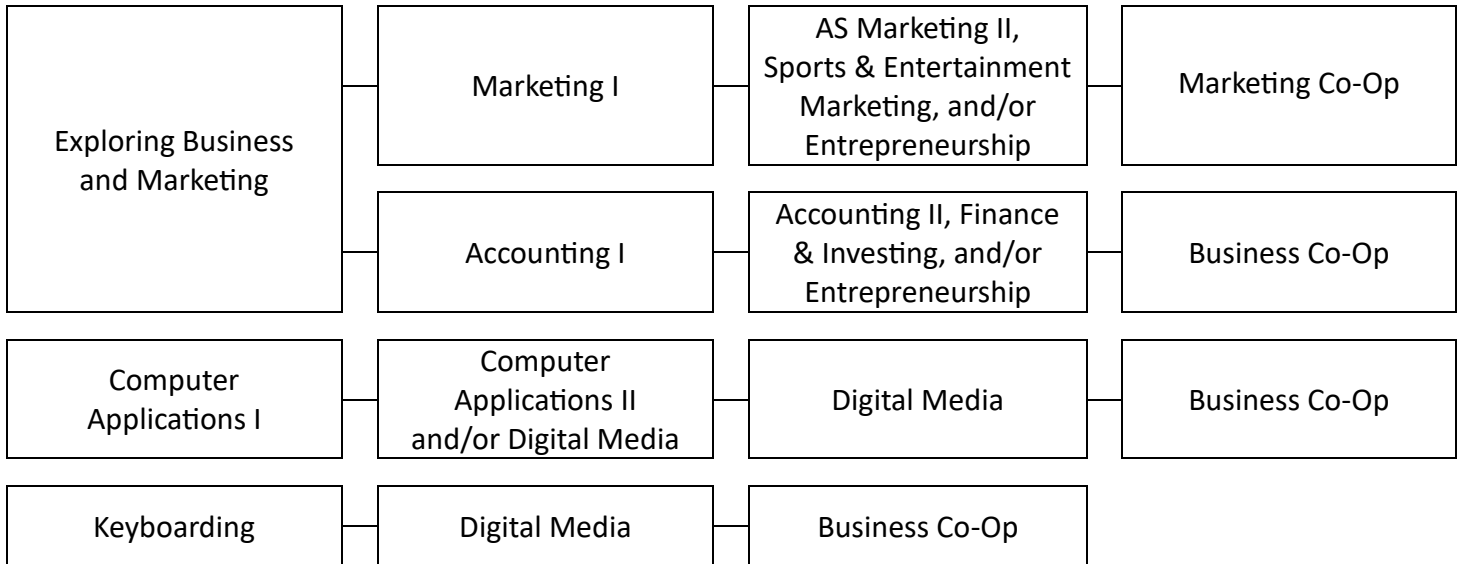
ART I Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 640121 AND Semester B: 640122	This is an introductory course that is a prerequisite for all other art courses except Ceramics I and Drawing I. Students will learn how to apply the art elements and design principles to original works of art in drawing, painting, printmaking, digital art, art metals, ceramics and sculpture.
ART METALS <i>Offered at Craig Only</i> Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Art I or Senior Status Course Number: Semester A: 642121 OR Semester B: 642122	Students will learn to design and shape wires, metals, and related materials into jewelry, sculpture, and constructions. Students will learn jewelry castings, and stone setting. Students will use basic metal-forming techniques of cutting, sawing, soldering, filing, drilling, hammering and finishing. Students will apply the elements and principles of design to objects made from metal.
CERAMICS Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 641121 AND Semester B: 641122	Students will learn the basic forms of clay construction working with coil and slab construction. They will be introduced to the potter's wheel, and various techniques for surface decorations will be demonstrated and explored. Students will create both functional pottery and nonfunctional sculptural clay forms. Students will critique ceramic works of art and research ceramic artists and movements in the history of ceramics.
DIGITAL ART I Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester A Only Prerequisites: Art 1 or Senior Status Course Number: Semester A: 643121	Students will create original artwork using Adobe Photoshop and Illustrator drawing and design software. A variety of digital drawing, illustration and design techniques will be explored and applied to original artwork using the elements and principles of design. Students may continue their exploration of digital art technology in Digital Art II.
DIGITAL ART II Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester B Only Prerequisites: Digital Art I Course Number: Semester B: 643222	Using skills acquired in Digital Art I, students will create original graphic design imagery – designs that visually communicate – using more advanced Photoshop and Illustrator techniques. Students will become familiar with current digital terminology, technology and equipment. <i>Advanced Studio: Digital Art can be taken multiple times after successfully completing Digital Art II.</i>
DRAWING I Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 640221 OR Semester B: 640222	Students will learn the basic skills and techniques of drawing in black and white media. Students will learn how to use and apply the design elements - line, value, texture and perspective – to express the principles of art in their work. Students will draw a variety of subject matter with a variety of materials.
DRAWING II Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Drawing I Course Number: Semester A: 640321 OR Semester B: 640322	Students continue to apply the basic drawing skills and techniques they learned in Drawing I to more complex and difficult subject matter including color. Students will continue to work with a variety of materials. <i>Advanced Studio-Drawing can be taken multiple times after successfully completing Drawing II.</i>

HISTORY THROUGH ART I <i>Offered at Parker Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 648121 OR Semester B: 648122	History Through Art I will allow students to study world history from Prehistory to the Middle Ages through the study of the major paintings, sculptures and architecture of those times. Students will participate in discussions/activities comparing and contrasting both Western and non-Western art. Civilizations, religions and political and social events will be studied as related to the emergence of new forms and movements in art. Students have the option to take this class and History Through Art II as prerequisites to AP Art History. <i>This course is also offered under Social Studies.</i>
HISTORY THROUGH ART II <i>Offered at Parker Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 648221 OR Semester B: 648222	History Through Art II will allow students to study world history from the Renaissance to the Modern Era through the study of the major paintings, sculptures and architecture of those times. Students will participate in discussions/activities comparing and contrasting both Western and Non-western art. Civilizations, religions and political and social events will be studied as related to the emergence of new forms and movements in art. Students have the option to take this class and History Through Art I as prerequisites to AP Art History. <i>This course is also offered under Social Studies.</i>
PAINTING Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Art I or Senior Status Course Number: Semester A: 644121 AND Semester B: 644122	Students will express their ideas in various painting techniques and mediums. They will use the elements and principles of design to create sound compositions. Students will learn about major artists and art movements and learn to appreciate various styles of painting. It is highly recommended to take a drawing course. <i>Advanced Studio - Painting can be taken multiple times after successfully completing Painting.</i>
PHOTOGRAPHY I Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Art I or Senior Status Course Number: Semester A: 645121 OR Semester B: 645122	This course is designed for students who are interested in learning the fundamentals of photography. Primary attention is directed at understanding artistic composition and the important role it plays in producing quality visual imagery. Students will demonstrate proficiency in processes connected with planning, taking, and developing, and printing black and white film photographs. In addition, a variety of special techniques will be taught that extend creativity and design options.
PHOTOGRAPHY II Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Photography I Course Number: Semester A: 645321 OR Semester B: 645322	This course is designed for students who are interested in learning the fundamentals of digital photography. The course will review the elements of composition, as well as the basic to intermediate features of Adobe Photoshop and Adobe Lightroom. Students will demonstrate proficiency in processes connected with planning, taking, and editing digital photographs. Students will develop visual understanding and apply critical thinking skills to create creative digital imagery and design projects. Portfolio development, client relationships, career options, lighting strategies, and critique methods will be taught. <i>Advanced Studio-Photography can be taken multiple times after successfully completing Photography II.</i>
SCULPTURE <i>Offered at Craig Only</i> Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Art I or Senior Status Course Number: Semester A: 646121 OR Semester B: 646122	Students will explore, design and construct sculpture as an art form. Using various sculpture techniques students will learn how to apply methods to achieve desired results. Various materials and found objects will be used. Students will apply their learned knowledge in a large individual or group sculpture for possible installation. <i>Advanced Studio - Sculpture can be taken multiple times after successfully completing Sculpture.</i>

BUSINESS & MARKETING

9th Grade

Business courses are not assigned to a particular grade level, and in many cases, multiple courses may be taken in one academic year. Recommended sequences are listed below.



ACCOUNTING I Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 662121 AND Semester B: 662122	Knowledge of accounting is important to all areas of business and finance. Career opportunities for people with accounting backgrounds are rapidly increasing and expanding. In this course, students learn and apply the basics of accounting principles and procedures to complete the accounting cycle. In addition to completing the basic accounting forms, students will also learn how to use computer software to complete accounting records. During the fourth quarter, students will get on-the-job experience by completing an accounting simulation. This course is a must for students who are pursuing a degree in business or a business-related major at a post-secondary school or for those wanting to learn how to keep a record system for personal use. Students will also gain extensive experience using Microsoft Excel.
ACCOUNTING II Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Accounting I Course Number: Semester A: 662421 AND Semester B: 662422	This course will build on the knowledge gained in the Accounting I course and provide students with a solid understanding of corporate accounting practices. Students will be able to analyze transactions and prepare various corporate financial reports. Students will also gain practical experience working with dividends, plant assets, depreciation, accrued revenue and expenses, retained earnings, stockholders' equity, and more. Students will continue to develop their skills in Microsoft Excel.
AP BUSINESS WITH PERSONAL FINANCE Grades: 11, 12 SDJ Credit: 1.0 *Does NOT replace Personal Finance grad requirement Length: Year Prerequisites: Marketing I Course Number: Semester A: 660311 AND Semester B: 660312	Take control of your future with AP Business with Personal Finance, a college-level course that gives you a strategic advantage in life and career. You will explore critical business disciplines including entrepreneurship, marketing, finance, accounting, and management through real-world applications and project-based learning to build essential business and professional skills. In addition, you will gain comprehensive financial literacy, covering topics from budgeting and saving to borrowing and investing. Enroll now to gain college credit and acquire the knowledge to navigate both the business world and your personal finances with confidence.
BUSINESS COMMUNICATIONS Grades: 11, 12 SDJ Credit: 0.5 Length: Semester B Only Prerequisites: None Alternate Year: Offered 2026-2027 Course Number: Semester B: 665122	This business course provides students the opportunity to develop the skills and attitudes necessary for success in the business world. The goal of this course is to provide students with an understanding of communication skills, current technology, and its impact on college and career readiness. Competencies will be developed in the areas of verbal and written communications, interpersonal skills, and the use of current technology including social media.

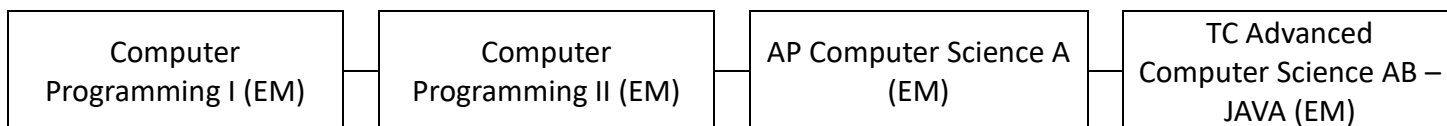
BUSINESS CO-OP Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Previously taken a Business class, Instructor Consent, and Application Course Number: Semester A: 667121 AND Semester B: 667122	In this course, students work in a local business to gain supervised business experience in a field related to his/her career objective. Students are trained and evaluated by the employer. Students receive school credit as well as wages for employment. Students are given release time to work in the afternoon. Examples of employers are: law offices, insurance companies, real estate offices, banks, dental offices, or any other office/business. It is recommended that students be enrolled in a coordinating business class. <i>COOP requirements include: weekly work logs and quarterly employer completed evaluations.</i>
 AS COMPUTER APPLICATIONS I Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 661321 OR Semester B: 661322	Computer Applications I is a semester course where students will learn to apply computer software and technology. Students will achieve a working knowledge of Microsoft Word, Microsoft Excel, Microsoft PowerPoint, and File Management, as they complete projects. Successful completion of Computer Applications I and II will lead to MOS Certification (Microsoft Office Specialist), which demonstrates a nationally recognized employability skill. <i>This course is also offered under Computer Science.</i>
COMPUTER APPLICATIONS II Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Computer Applications I Course Number: Semester A: 661351 OR Semester B: 661352	Computer Applications II is a semester course where students apply computer software and technology. Students will learn advanced features of Microsoft Excel, and Microsoft Word. They will also learn basic functions of Microsoft Access. Students will integrate all programs in Microsoft Office Suite to prepare documents and complete projects. Successful completion of Computer Applications I and II will lead to MOS Certification (Microsoft Office Specialist) which demonstrates a nationally recognized employability skill. <i>This course is also offered under Computer Science.</i>
DIGITAL MEDIA & DESIGN Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Alternate Year: Offered 2027-2028 Course Number: Semester A: 661421 OR Semester B: 661422	Digital Media & Design is a one semester class. Students will create and produce digital design layouts and visual communications projects (logos, ads, brochures, magazines, newsletters, and posters) using Adobe In-Design, Spark, Photoshop, and Illustrator. A variety of video creation software for multimedia, movies and the web will complete this course. <i>This course is also offered under Computer Science.</i>
 AS ENTREPRENEURSHIP Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Alternate Year at Parker: Offered 2027-2028 Prerequisites: Accounting I or Marketing I Course Number: Semester A: 660331 OR Semester B: 660332	Entrepreneurship is a leading factor in driving the global economy. In this class, students will learn the entrepreneurial process and the operations of a business. Students will develop an innovative idea and create a business plan. The entrepreneurs of today and tomorrow must understand how a competitive marketplace operates, as well as comprehend production, marketing, finance, human resources, social environment, and legal issues. Communication skills, initiative, creativity, and problem-solving techniques are instrumental to success in the class.
EXPLORING BUSINESS & MARKETING Grades: 9, 10 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 660121 OR Semester B: 660122	This semester course gives students a general overview of the world of business. This introductory level course allows students a chance to get a taste of other business and marketing courses offered at the high school level. Students will explore different topics involving economics, business management, accounting, marketing, computer applications, ethics, business communications, entrepreneurship, and other business-related careers. Students will understand why business-related majors are one of the most popular in post-secondary education today.

FINANCE & INVESTING Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Personal Finance Course Number: Semester A: 750211 OR Semester B: 750212	Do you want to learn how to invest money to retire earlier, travel the world, or buy your dream car? These are a few of the things that successful investors can accomplish. According to Bankrate.com, 29 percent of Generation Z thinks the stock market is too intimidating! In Finance and Investing you'll learn the skills it takes to become a better investor. You will also develop the skills and abilities to conduct financial analyses for companies that help shape the decisions each and every company makes.
INTERNATIONAL BUSINESS Grades: 11, 12 SDJ Credit: 0.5 Length: Semester A Only Prerequisites: None Alternate Year: Offered 2026-2027 Course Number: Semester A: 664121	This course will provide a foundation for becoming informed about the global business environment. Students will cover topics related to international business and their impact on society. Students will learn about advancements in the global economy through trade, marketing, and entrepreneurship. Students will enhance their understanding of International Business through studying real-life business examples.
INTRODUCTION TO LAW Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 663121 OR Semester B: 663122	Introduction to Law is a business and personal-use law course covering the subjects of crimes, torts, court procedures and other legal topics. Students will learn about law enforcement and the courts, criminal law, civil law, contract law, consumer law, personal property law, legalities of renting an apartment, and the legalities of purchasing a vehicle. Guest speakers from the community will also visit the class to share their expertise in these areas.
KEYBOARDING Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 661121 OR Semester B: 661122	Keyboarding is designed for students to learn how to touch type on the computer keyboard. Using proper finger placement and technique, students will develop their skill, speed, and accuracy to an employable level. Students will use Microsoft Word to format personal and business letters, tables, memos, and reports that will enhance their performance in school, in their personal lives, and in their careers. Previous keyboarding experience is not required.
MARKETING EDUCATION I – Branding, Product Development, and Social Media Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 660221 AND Semester B: 660222	This course provides students insight into business and the world of marketing through a sound foundation of marketing principles. Units covered in this course include Economics, all aspects of Marketing, the Selling Process, Product Planning & Development, Promotion, Social Media, Channels of Distribution, and Pricing Strategies. Materials used for instruction are all from the real world of business. Student leadership development and employment skills are integrated into this class through our co-curricular organization, DECA.
 AS MARKETING EDUCATION II – Management, Market Research, and Digital Marketing Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Marketing Education I Course Number: Semester A: 660341 AND Semester B: 660342	This course is for students who have successfully completed Marketing Education I – Branding, Product Development and Social Media. Students will have the opportunity to operate our school store in cooperation with this class. An emphasis is placed on discussion of business/job related problems and successful problem-solving techniques. Units covered include Economics, Principles of Management, Marketing Information Management, Risk Management, Digital Marketing, and introductory units of Entrepreneurship and Sports & Entertainment Marketing. Student leadership development and employment skills are integrated into this class through our co-curricular organization, DECA.

MARKETING EDUCATION CO-OP Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Previously taken a Marketing class, Instructor Consent, and Application Course Number: Semester A: 667221 AND Semester B: 667222	Students work in the community in a job related to business or marketing. Students receive school credit and wages for employment. A major emphasis is placed on learning about the operation of a business, exploring business as a career and working with common problems faced in the world of work. Students will commit to working at the job the full year. Students must be enrolled in a coordinating marketing class as determined by the instructor. <i>CO-OP requirements include: weekly work logs and quarterly employer completed evaluations.</i>
SPORTS & ENTERTAINMENT MARKETING Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Marketing Education I Course Number: Semester A: 660421 OR Semester B: 660422	This marketing course provides students with an opportunity to learn about two of the most profitable industries in the United States: Sports and Entertainment. This class is for students who have a desire to continue in marketing education. This course will review basic principles of marketing and economics as to how they relate to the sports and entertainment world. Topics covered include branding, licensing, sponsorship, promotion, advertising, selling, finance, distribution, and careers within the field. Students may have the opportunity to apply topics learned by running a sports franchise through a simulated computer program called Virtual Business-Sports. This program provides students with a real-world learning experience in sports marketing.

COMPUTER SCIENCE

Computer Science courses are not assigned to a particular grade level, and in many cases, multiple courses may be taken in one academic year. Recommended sequence is listed below.



AP Computer Science Principles can be taken at any point in the progression as well.

Computer Science elective courses can be taken at any point as long as prerequisites have been met.

(Application Development, Game Design I, Game Design II, Web Design, Robotics, Engineering, & Programming)

 TC ADVANCED COMPUTER SCIENCE AB – JAVA (EM) Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: AP Computer Science A – JAVA Course Number: Semester A: 684221 AND Semester B: 684222	This yearlong course is comparable to the second course in the introductory sequence for computer science majors in college. Advanced Computer Science AB is intended to serve both as a second step for computer science majors and as a course for students who will major in other disciplines that require significant involvement with technology. JAVA is a platform independent language, and the programs students write will compile successfully on all operating systems. Upon completion of the course, students will have finished the equivalent of a second semester course in college computer science. <u>Students will be responsible for paying for the tuition, which is about one third of the cost as an undergraduate (approximately \$300).</u> <i>This course is also offered under Mathematics.</i>
AP COMPUTER SCIENCE A – JAVA (EM) Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Algebra I Course Number: Semester A: 684321 AND Semester B: 684322	This yearlong course is comparable to the first course in the introductory sequence for computer science majors in college. The AP Computer Science A course is intended to serve both as an introductory course for computer science majors and as a course for students who will major in other disciplines that require significant involvement with technology. JAVA is a platform independent language and the programs students write will compile successfully on all operating systems. Students will have the opportunity to take the Advanced Placement exam. <i>This course is also offered under Mathematics.</i>
AP COMPUTER SCIENCE PRINCIPLES (EM) Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Algebra I Course Number: Semester A: 684521 AND Semester B: 684522	This course offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cyber-security concerns, and computing impacts. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. Students will have the opportunity to take the Advanced Placement exam. <i>This course is also offered under Mathematics.</i>
AP CYBERSECURITY Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: AP Computer Science Principles or AP Computer Science A – JAVA Course Number: Semester A: 684621 OR Semester B: 684622	The AP Cybersecurity course is a year-long, hands-on high school introduction to cybersecurity, covering common threats, vulnerabilities, and risk management strategies across networks, devices, and data. It aligns with college-level introductory courses and the College Board AP Central National Initiative for Cybersecurity Education Workforce Framework. The course aims to equip students with practical skills, potentially leading to an employer-endorsed AP Cybersecurity Credential. Topics include cyber law and policy, Linux fundamentals, networking basics, risk assessment, cryptography, and ethical hacking.
COMPUTER PROGRAMMING I (EM) Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 681121 OR Semester B: 681122	Computer Programming I is a beginning programming course. Students will learn a modern object orientated programming language that produces programs for Macintosh or Windows machines. Students will design programs that will include music, audio, movies, graphics and interactive real-world applications. These projects will emphasize communication of ideas and information available to a wide range of student interests. This will allow for a smooth transition to other languages such as JAVA and C++. Topics include the use of algorithms and variables with decision and repeat structures. <i>This course is also offered under Mathematics.</i>

COMPUTER PROGRAMMING II (EM) Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Computer Programming I Course Number: Semester A: 681221 OR Semester B: 681222	Computer Programming II is the advanced programming course that expands upon the computing knowledge and skills acquired in the Computer Programming I class. Students will learn advanced programming techniques. Multimedia projects will include the use of video and sound technologies. The emphasis will be on effective communication of ideas and information through high level programming strategies involving objects and classes. These strategies include control structures and the handling of numerical and textual data through functions and classes. <i>This course is also offered under Mathematics.</i>
ROBOTICS, ENGINEERING, AND PROGRAMMING Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 681321 AND Semester B: 681322	Robotics, Engineering, and Programming is an exciting class to allow students to feel comfortable with new and sometimes very complicated concepts. To build an autonomous robot, students must learn the basic concepts of computer programming, design, electronics, engineering, and mechanics.
WEB DESIGN Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 683121 OR Semester B: 683122	Web Design is a class designed to teach the components of web design and web page creation for the Internet. Students will learn and use HTML, JavaScript, and the formatting techniques provided by CSS. Students will learn to plan effective page designs. Time will be spent researching topics, planning web sites, and mastering web software. Individual projects will incorporate all of this with topics selected to reinforce interests and learning in other subject areas. Students will also develop web buttons, rollover images, and web animations that will be used on their web sites.

ENGLISH

9th Grade

10th Grade

11th Grade

12th Grade

Accelerated Course Sequence: (NOTE - Students in the 8th Grade Challenge Program should take English 10 their freshman year)

Accelerated English
9-10 Honors

English 11 Honors
(May take AP Seminar
concurrently)

AP English Lang & Comp,
AP English Lit & Comp,
or AP Seminar

AP English Lang & Comp,
AP English Lit & Comp,
AP Seminar, or
English Electives

Honors Course Sequence:

English 9 Honors

English 10 Honors

English 11 Honors
(May take AP Seminar
concurrently)

AP English Lang & Comp,
AP English Lit & Comp, or
TC Speech & TC English
Composition I

Traditional Course Sequence:

English 9

English 10

English 11
(May take AP Seminar
concurrently)

English 12 or
English Electives
(AP English Lang, AP English Lit, AP
Seminar, TC Speech, TC English
Comp, Creative Writing, Novel
Studies, SciFi & Fantasy, Social
Justice, Writing Through Films)

English elective courses that do not count toward the English credit requirement
may be taken concurrently with courses listed above.

(Intro to Media & Journalism, Survey of Theatre & Acting, MultiMedia Production, Yearbook, Newspaper)

ACCELERATED ENGLISH 9-10 HONORS

Grades: 9

SDJ Credit: 1.0

Length: Year

Prerequisites: None

Course Number: Semester A: 501011

AND Semester B: 501012

This yearlong course is for students who are especially committed to challenging their reading and writing skills as this course takes students on a journey through English 9 Honors and English 10 Honors curriculum. Following completion of this course, students will enroll in English 11 Honors during their sophomore year. Students will experience an increased level of written and oral analysis of literature, informational text, drama, and poetry. Non-fiction selections will be used to prompt writing and extend the study of issues and themes. It is expected that students will be able to read independently. Students who register for this course are proficient or advanced writers and readers and will continue to develop those skills.

AP ENGLISH LANGUAGE & COMPOSITION

Grades: 11, 12

SDJ Credit: 1.0

Length: Year

Prerequisites: English 11 or English 11 Honors

Course Number: Semester A: 505921

AND Semester B: 505922

Advanced Placement English Language and Composition is a college-level introductory course that engages students in becoming skilled readers of mature prose, primarily non-fiction, and in becoming skilled writers who compose for a variety of purposes with a focus on analysis and argumentation. The overarching purpose is to enable students to write effectively and confidently in their college courses across the curriculum and in their personal and professional lives. Students will have the opportunity to take the Advanced Placement exam.

AP ENGLISH LITERATURE & COMPOSITION

Grades: 10, 11, 12

SDJ Credit: 1.0

Length: Year

Prerequisites: English 11 or English 11 Honors

Course Number: Semester A: 505821

AND Semester B: 505822

AP English Literature & Composition engages students in the careful reading and critical analysis of college-level literature. Through the close reading of selected texts, students deepen their understanding of the ways writers simultaneously use language, structure, imagery, symbolism, setting, character, tone as well as other literary strategies to create both meaning and pleasure for the reader. Writing is an integral part of the AP English Literature and Composition course which will focus on the critical analysis of literature including expository, analytical, and argumentative essays. Students should expect rigorous outside reading assignments of complex texts including short stories, novels, poetry, and drama. In class, students will participate in analytical discussion of the literature and will engage in frequent timed essay writing. Students will have the opportunity to take the Advanced Placement exam.

AP SEMINAR Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Concurrent enrollment or completion of English 11 Course Number: Semester A: 506201 AND Semester B: 506202	Develop and practice the skills in research, collaboration, and communication that you'll need in any academic discipline. You'll investigate topics in a variety of subject areas, write research-based essays, and design and give presentations both individually and as part of a team.
CREATIVE WRITING Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Concurrent enrollment or completion of English 11 Course Number: Semester A: 505221 OR Semester B: 505222	This class encourages and develops a student's creative writing abilities. Students will be provided freedom in many assignments to develop their own unique perspectives and writing voices. Short fiction, poetry, scriptwriting, and multimedia projects are all items which are typically covered. Students will be expected to write and review on a continual basis, and beginning to experienced writers are able to enroll.
ENGLISH 9 Grades: 9 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 501121 AND Semester B: 501122	Students will study conflict, identity, and responsibility through the study of literature and informational text. Non-fiction, poetry, and short stories will also be used to prompt writing and extend the study of essential questions. Critical thinking skills and close reading of text are emphasized. Students will complete short research projects and continue building vocabulary knowledge and skills. Writing instruction will focus on paragraph writing using textual evidence and multi-paragraph persuasive essay writing. Grammar instruction will include sentence structure, punctuation, and proper usage.
ENGLISH 9 - HONORS Grades: 9 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 501021 AND Semester B: 501022	Students will study conflict, identity, and responsibility through the study of literature and informational text. Non-fiction, poetry, and short stories will also be used to prompt writing and extend the study of essential questions. Critical thinking skills and close reading of text are heavily emphasized, and students will complete research projects and continue building vocabulary knowledge and skills. Writing instruction will focus on paragraph writing using textual evidence and multi-paragraph essay writing. Grammar instruction will include sentence structure, punctuation, and proper usage. <i>The English Honors series of courses is designed to develop the prerequisite skills needed for AP English offerings. Extensive, independent work is required.</i>
ENGLISH 10 Grades: 10 SDJ Credit: 1.0 Length: Year Prerequisites: English 9 Course Number: Semester A: 502021 AND Semester B: 502022	The emphasis for this course is exploring the themes of identity, perspective, nature, liberty, change, and power in the human experience. Non-fiction selections will be used to prompt writing and extend the study of literature. Critical thinking skills and close reading of text are emphasized. Writing instruction will focus on using textual evidence to support analysis and multi-paragraph argumentative essay writing. In addition, students will use the research process as they write a research paper. Vocabulary instruction will continue to build vocabulary knowledge and skills with a focus on figurative language, words with multiple meanings, and the impact of word choice on tone and mood. Grammar instruction will focus on parts of a sentence, phrases, and clauses with an application on applying these skills to construct correct and varied sentences in students' writing.
ENGLISH 10 - HONORS Grades: 9 (if Challenge Program student), 10 SDJ Credit: 1.0 Length: Year Prerequisites: English 9 or Challenge Magnet Program English Course Number: Semester A: 502011 AND Semester B: 502012	The emphasis for this course are exploring the themes of identity, perspective, nature, liberty, change, and power in the human experience. Non-fiction selections will be used to prompt writing and extend the study of literature. Critical thinking skills and close reading of text are heavily emphasized. Writing instruction will focus on using textual evidence to support analysis and multi-paragraph argumentative essay writing. In addition, the research process will be a major part of this course as students complete a research paper. Vocabulary instruction will continue to build vocabulary knowledge and skills with a focus on figurative language, words with multiple meanings, and the impact of word choice on tone and mood. Grammar instruction will focus on parts of a sentence, phrases, and clauses with an application on applying these skills to construct correct and varied sentences in students' writing. <i>The English Honors series of courses is designed to develop the prerequisite skills needed for AP English offerings. Extensive, independent work is required.</i>

ENGLISH 11 Grades: 10 (If completed Accelerated English 9-10 Honors), 11 SDJ Credit: 1.0 Length: Year Prerequisites: Accelerated English 9-10 or English 10 Course Number: Semester A: 503021 AND Semester B: 503022	Students will examine the American literary experience through the writings of significant authors of American Literature. In addition to major works, supplemental pieces including poetry and non-fiction from different literary periods will be studied and analyzed. To expose students to the varying perspectives of the American Experience, critical thinking skills, close reading of text, and literary analysis are emphasized. ACT-style argumentative essay writing will be a key component to this course.
ENGLISH 11 - HONORS Grades: 10 (If completed Accelerated English 9-10 Honors), 11 SDJ Credit: 1.0 Length: Year Prerequisites: Accelerated English 9-10 or English 10 Course Number: Semester A: 503011 AND Semester B: 503012	Students will examine the American literary experience through the writings of significant authors of American Literature. In addition to major works, supplemental pieces including poetry, non-fiction, and speeches from different literary periods will be studied and analyzed. In addition, literature circles will be utilized to expose students to the varying perspectives of the American Experience. Critical thinking skills and close reading of text are heavily emphasized. College preparatory writing will be emphasized in this course. This includes ACT-style argumentative essay writing and literary analysis writing. <i>The English Honors series of courses is designed to develop the prerequisite skills needed for AP English offerings. Rigor will be emphasized through extensive independent skill application. Extensive, independent work is required.</i>
ENGLISH 12 Grades: 12 SDJ Credit: 1.0 Length: Year Prerequisites: English 11 Course Number: Semester A: 504821 AND Semester B: 504822	In this course students will examine a variety of major American and British authors in addition to contemporary multicultural writings through a variety of activities, including literature circles. Composition; literature, both fiction and nonfiction; vocabulary; and grammar are covered in this course. Writing assignments will include expository, analytical, persuasive, responsive, and research compositions to develop understanding and prepare students for future responsibilities as workers and students. Students may also compose a personal statement for college or workplace.
 TC ENGLISH COMPOSITION Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: English 11 Course Number: Semester A: 505121 OR Semester B: 505122	This course is for students who want to write at the college level. Students will solidify their understanding of the writing process by planning, organizing, writing, and revising papers. Students will explore writing by constructing a narrative essay, an objective summary, a rhetorical analysis essay, and an inquiry-based research paper. In addition, students will not only learn the difference between academic and non-academic language but will also demonstrate appropriate use of the APA citation format. Through written discussion boards, grammar review, and engaging in critical reading, thinking, and writing activities, this course provides students with multiple opportunities for peer interaction. <i>Transcripted credit may be offered if the SDJ has a licensed staff member employed to teach this course. This is a college course that will produce a permanent college transcript and grade point average for each student. If you believe that producing a permanent college transcript and grade point is not in your best interest academically at this time, please consider requesting a non-transcripted credit (TC) course. If you need more information about Transcripted Credit, see your counselor before requesting courses.</i>
INTRODUCTION TO MEDIA & JOURNALISM Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 507011 OR Semester B: 507012	This will be a hands-on, production-based course grounded in sound journalistic practices, laws, and ethics. Students will learn news literacy, news writing, design & layout, photojournalism, broadcast scripting, storyboarding, and multimedia production. Units covered will include newspaper design & layout, on & off camera interviewing, documentary shorts, and photography for print media, podcasts, and broadcasting among others. Students will be responsible for creating content for school publications.

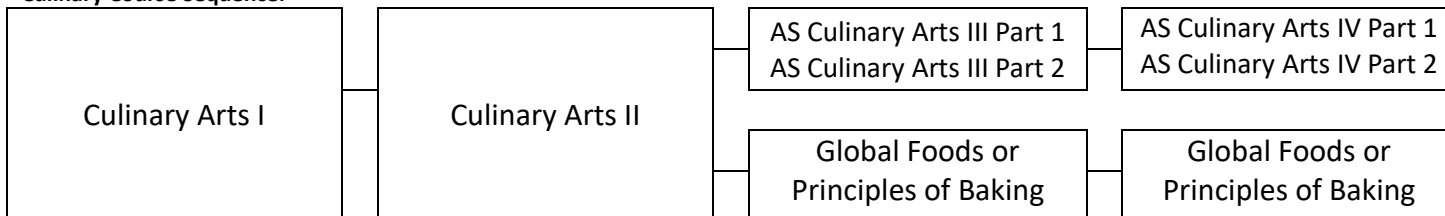
MULTI-MEDIA PRODUCTION Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Intro to Media & Journalism Course Number: Semester A: 507111 AND Semester B: 507112	Be part of the team producing student videos and news broadcasts. Students will learn multi-media production skills including scripting, storyboarding, lighting, filming, sound, directing, acting, and editing. Practice these skills by creating short personal introduction videos, video scavenger hunts and video yearbook segments to be uploaded to a portfolio website. Train in a state-of-the-art broadcast studio equipped with studio cameras, camcorders, field cameras, a green screen, 32-channel light board, iPad teleprompter, boom mics and industry-standard broadcast mics. Join a field camera crew creating school spirit videos like "Teachers Read Mean Tweets" and "Bad Lip Reading," as well as promotional videos for school events such as Bags of Hope and Operation Click. Apply for leadership roles including Editor-In-Chief, Features Editor, Sports Editor, and Social Media Editor.
NEWSPAPER Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Intro to Media & Journalism Course Number: Semester A: 509011 AND Semester B: 509012	Newspaper is a production-based journalism class. Students work on a team to create the school newspaper. This periodical publication tells stories of the events, trends, and people that make up the daily life of the school and its surrounding community. Newspaper staff members conduct research and interviews, attend school events, take pictures, write and edit stories, organize layouts, and format photos, reach out to community businesses to raise ad revenue, and use social media to engage the community and to increase interest. This class also provides students with opportunities for leadership roles, and juniors and seniors can earn membership in Quill and Scroll, the international journalism honor society. Its members earn the privilege of wearing an honor cord at their graduation. Overall, the newspaper class will refine students' technical, creative, and problem-solving skills as they produce content for a real audience.
NOVEL STUDIES Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Concurrent enrollment or completion of English 11 Course Number: Semester A: 505321 OR Semester B: 505322	This is a course designed for students who enjoy reading and analyzing literature. Students will improve comprehensive reading skills and analytical writing skills through exposure to a variety of literature. Students will be able to choose novels based on the genres discussed in class. The course will also encourage students to become a life-long reader.
SCIENCE FICTION & FANTASY Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Concurrent enrollment or completion of English 11 Course Number: Semester A: 505421 OR Semester B: 505422	This course offers a survey of science fiction and fantasy, transporting readers to planets light-years away, or deep inside the caves of a far-distant past. The goals of Science Fiction and Fantasy are to develop the following: to examine science fiction themes and motifs in literature and film, to explore the basis for these themes in society and how they were reflected in literature and film of the time, to examine these themes in detail and discuss the similarities and differences, to examine and discuss current world tensions and how they might play out in literature and film, and to think critically about the relationship between societal issues and how they are reflected in popular culture.
SOCIAL JUSTICE: THE POWER OF CHOICE AND VOICE Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 501311 OR Semester B: 501312	Students will explore non-fiction and fiction texts through the lens of social justice. Students will analyze and research how this central theme is conveyed across diverse genres including novels, short stories, poems, articles, documentaries, music videos, visual art, and other multimedia. The course is designed to examine how writers and other creators use various genres to inspire and affect change. By engaging critically with a variety of issues, students will develop college-ready reading, writing, thinking, speaking, and listening skills-while simultaneously cultivating personal attributes such as self-discipline, confidence, and creative expression.
 TC SPEECH Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Concurrent enrollment or completion of English 11 Course Number: Semester A: 505621 OR Semester B: 505622	This class will develop the basic skills of oral communication and help students become effective communicators. Units of study include the communication process, interpersonal communication, effective listening, small group discussion, and public speaking. Students can expect to participate in regular task-oriented groups and to make several public presentations to the class. <i>Transcripted credit may be offered if the SDJ has a licensed staff member employed to teach this course. This is a college course that will produce a permanent college transcript and grade point average for each student. If you believe that producing a permanent college transcript and grade point is not in your best interest academically at this time, please consider requesting a non-transcripted credit (TC) course. If you need more information about Transcripted Credit, see your counselor before requesting courses.</i>

SURVEY OF THEATER AND ACTING Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 506091 OR Semester B: 506092	This course will explore the foundations of theater, as well as elements of acting, and playwrights and playwriting. Students will participate in class readings and renditions of theatrical works, create their own works, as well as practice acting techniques and dramatic enactment and/or reading. No theater experience is required.
WRITING THROUGH FILMS Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Concurrent enrollment or completion of English 11 Course Number: Semester A: 505311 OR Semester B: 505312	In this semester English course, the film will serve as the medium by which students will work to improve their writing and critical understanding of the way texts through film create meaning. Students will analyze the film genres while engaging with and analyzing various films exposing students to narrative techniques, cinematic terminology, and the director's stylistic innovation. The threefold purpose of the class allows students to become familiar with the interpretive language of film, cultivate the reading of the film as text, and create critical arguments regarding the analysis of those texts. Also, students will be required to complete a culminating project at the end of the semester.
YEARBOOK Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Intro to Media & Journalism or Instructor Consent Course Number: Semester A: 509021 AND Semester B: 509022	Students will publish a yearbook for their peers. They will learn the basics of yearbook journalism – theme development, financial responsibility, page layout and design, copy writing and editing, graphics and special effects, indexing, and student press law. Students interested in photography will study photo composition, organization, and editing using Adobe Suite. <i>This course may require time outside of the scheduled school day.</i>

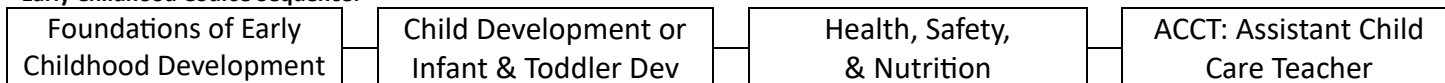
FAMILY AND CONSUMER SCIENCES

FCS courses are not suggested for a particular grade level, and in many cases, multiple courses may be taken in one academic year, however, recommended sequences are listed below.

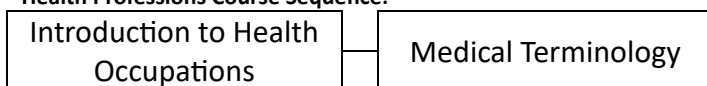
Culinary Course Sequence:



Early Childhood Course Sequence:



Health Professions Course Sequence:



ASSISTANT CHILD CARE TEACHER A.C.C.T.

Grades: 11, 12

SDJ Credit: 0.5

Can earn state licensure if competency and attendance requirements are met.

Length: Semester

Prerequisites: TC Child Development

Course Number: Semester A: 723421

OR Semester B: 723422

ACCT is a Field Study course provides students with the skills and knowledge necessary to work in the child care industry and allows students to gain hands-on experience working in a P4J or Elementary School classroom. Students are required to be at least 16 years of age and able to drive at the time of the course. The program was developed by the Wisconsin Department of Public Instruction (DPI) to train secondary students for careers in the child care field; students will receive a completion certificate and meet entry-level training requirements from the Wisconsin Department of Children and Families.

TC or AS CHILD DEVELOPMENT

Grades: 10, 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: None

Course Number: Semester A: 722231

OR Semester B: 722232

This course examines child development within the context of the early childhood education setting. Course competencies include: analyze social, cultural and economic influences on child development; summarize child development theories; analyze development of children age three through age eight; summarize the methods and designs of child development research; analyze the role of heredity and the environment; and examine the role of brain development in early learning (ages 3-8).

Transcripted credit may be offered if the SDJ has a licensed staff member employed to teach this course.

CULINARY ARTS I

Grades: 9, 10, 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: None

Course Number: Semester A: 721621

OR Semester B: 721622

Explore a variety of food preparation methods, develop cooking and measuring skills, and understand the function of ingredients, healthy eating, and current topics in nutrition. Major topics include safety and sanitation, kitchen tools and utensils, cooking terms, kitchen math and measuring, knife safety, grains, eggs, fruits & vegetables.

CULINARY ARTS II

Grades: 10, 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: Culinary Arts I

Course Number: Semester A: 722021

OR Semester B: 722022

This course will expand on a variety of different food preparation methods, including quantity cooking, mass production, food safety and presentation. The skills learned throughout the course can be used in preparation for many food occupations. Expect to run a mini business with catering, restaurant and special food events and projects. Serve Safe curriculum will be used and students will be given an opportunity to prepare for National Restaurant Association certification.

 AS CULINARY ARTS III: PROSTART PART 1 Grades: 11, 12 SDJ Credit: 0.5 Length: Semester A Only Prerequisites: Culinary Arts II or Instructor Consent Course Number: Semester A: 722031	This course is part of the ProStart Program. ProStart is a nationally recognized two-year School-to-Career program designed by the Educational Foundation of the National Restaurant Association. ProStart teaches the basic skills and knowledge that students need for success in the foodservice industry. Students are offered instruction ranging from basic food preparation to accounting and cost control. In addition, there is an emphasis on safety and sanitation, communication, management, customer service, and workplace safety. At the conclusion of the safety and sanitation unit, the culinary lab experience, which includes soups, sauces, fruits, vegetables, and grains, will begin. There is an opportunity for work experience credit for students who are employed in the foodservice industry. Students will take the first part of a national credentialing exam at the conclusion of this course.
 AS CULINARY ARTS III: PROSTART PART 2 Grades: 11, 12 SDJ Credit: 0.5 Length: Semester B Only Prerequisites: Culinary Arts III: Part 1 or Instructor Consent Course Number: Semester B: 722032	This course is part of the ProStart Program. ProStart is a nationally recognized two-year School-to-Career program designed by the Educational Foundation of the National Restaurant Association. ProStart teaches the basic skills and knowledge that students need for success in the foodservice industry. Students are offered instruction ranging from basic food preparation to accounting and cost control. In addition, there is an emphasis on safety and sanitation, communication, management, customer service, and workplace safety. At the conclusion of the safety and sanitation unit, the culinary lab experience, which includes soups, sauces, fruits, vegetables, and grains, will begin. There is an opportunity for work experience credit for students who are employed in the foodservice industry. Students will take the first part of a national credentialing exam at the conclusion of this course.
 AS CULINARY ARTS IV: PROSTART PART 1 Grades: 11, 12 SDJ Credit: 0.5 Length: Semester A Only Prerequisites: Culinary Arts III: Part 2 or Instructor Consent Course Number: Semester A: 722041	This course is designed for those especially interested in pursuing a career in a Restaurant or Hospitality and Tourism. Students at the culmination of this course will take the ProStart National Exams and earn the National ProStart Certificate of Achievement. Students who successfully complete the 2-year program will receive certification from the National Restaurant Association (NRA) which will provide them with articulated college credit or advanced standing opportunities at some 30+ colleges and universities across the United States, along with many scholarship opportunities. Students will also work toward receiving SERV Safe® Sanitation Management Certification through the NRA which allows the student to get their sanitation managers license through the State of Wisconsin Health Department. As part of the practical learning process, students will have catering experiences through the high school. Students interested in pursuing this class as an option should intend on gaining employment in a related field to gain full certification. Students are encouraged to enroll in the FACS Coop concurrently if they are employed in a food service related occupation.
 AS CULINARY ARTS IV: PROSTART PART 2 Grades: 11, 12 SDJ Credit: 0.5 Length: Semester B Only Prerequisites: Culinary Arts IV: Part 1 or Instructor Consent Course Number: Semester B: 722042	This course is designed for those especially interested in pursuing a career in a Restaurant or Hospitality and Tourism. Students at the culmination of this course will take the ProStart National Exams and earn the National ProStart Certificate of Achievement. Students who successfully complete the 2-year program will receive certification from the National Restaurant Association (NRA) which will provide them with articulated college credit or advanced standing opportunities at some 30+ colleges and universities across the United States, along with many scholarship opportunities. Students will also work toward receiving SERV Safe® Sanitation Management Certification through the NRA which allows the student to get their sanitation managers license through the State of Wisconsin Health Department. As part of the practical learning process, students will have catering experiences through the high school. Students interested in pursuing this class as an option should intend on gaining employment in a related field to gain full certification. Students are encouraged to enroll in the FACS Coop concurrently if they are employed in a food service related occupation.
 AS MEDICAL TERMINOLOGY Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester A Only Prerequisites: None Course Number: Semester A: 586521	This course should be taken by students interested in entering the healthcare field or learning the medical language. This course is designed to provide the student with a foundation in the medical language. Throughout this course, students will begin to understand/explore the wide variety of health care careers. Units of study include: In-depth study of word parts to pronounce, spell, build, analyze and define medical terms: Introduction to anatomy & terminology revolving around several body organs/systems. <i>This course is also offered under Science.</i>

 TC or AS EARLY CHILDHOOD EDUCATION: FOUNDATIONS OF EARLY CHILDHOOD Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester A Only Prerequisites: None Course Number: Semester A: 507151	This course introduces the early childhood profession through a historical overview of the field. The course will explore program trends, quality indicators, and developmentally appropriate practices for children birth to age 8.
 TC or AS EARLY CHILDHOOD EDUCATION:HEALTH, SAFETY, & NUTRITION Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 723111 OR Semester B: 723112	This course examines the topics of health, safety, and nutrition within the context of the early childhood educational setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; examine governmental regulations and professional standards as they apply to health, safety, and nutrition; plan a safe early childhood environment; plan a healthy early childhood environment; plan nutritionally sound menus; examine child abuse and neglect issues and mandates; apply Sudden Infant Death Syndrome (SIDS) risk reduction strategies, describe strategies to prevent the occurrence of Abusive Head Trauma (AHT) formerly known as Shaken Baby Syndrome (SBS); incorporate health, safety, and nutrition concepts into the children's curriculum. <i>Transcripted credit may be offered if the SDJ has a licensed staff member employed to teach this course.</i>
 TC or AS EARLY CHILDHOOD EDUCATION:INFANT & TODDLER DEVELOPMENT Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 723411 OR Semester B: 723412	This course you will study infant and toddler development as it applies to an early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; analyze development of infants and toddlers (conception to thirty-six months); correlate prenatal and postnatal conditions with development; summarize child development theories; analyze the role of heredity and the environment; examine culturally and developmentally appropriate environments for infants and toddlers, examine the role of brain development in early learning (conception through thirty-six months); examine caregiving routines as curriculum; and examine developmental and environmental assessment strategies for infants and toddlers. This course offers the enrichment activity of caring for a Real Care infant simulator as part of the learner experience. <i>Transcripted credit may be offered if the SDJ has a licensed staff member employed to teach this course.</i>
FACS CO-OP Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Previous or concurrent enrollment in a FACS course Course Number: Semester A: 729521 AND Semester B: 729522	Employment opportunities exist in childcare, restaurants, and health care. Students will work in their chosen career area and receive pay and credit for on-the-job work experience. Students will receive release time from school for working at least 12-15 hours per week. <i>COOP requirements include weekly work logs and quarterly employer completed evaluations.</i>
GLOBAL FOODS Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Culinary Arts II Course Number: Semester A: 721821 OR Semester B: 721822	This course offers opportunities to explore and taste different cuisine from countries around the world as students use their cooking skills learned in Culinary Arts I and Culinary Arts II. Students will investigate the geographical and cultural factors that influence the kinds of foods grown and eaten in each country. Students will come away with a broadened view of the world and deeper understanding of other cultures and ethnic cuisine.
HEALTH OCCUPATIONS Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 723021 OR Semester B: 723022	The field of Health Care is full of opportunities and growing rapidly every year. Students will have many opportunities to investigate the wide range of career opportunities in health. A variety of guest speakers and activities are offered during the semester. Students will study ethics, medical history, the health system, and medical terminology. <i>This course is also offered under Health.</i>

PRINCIPLES OF BAKING Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Culinary Arts II Course Number: Semester A: 721921 OR Semester B: 721922	During this course, students will participate in activities and labs that link chemistry and food preparation. Students will investigate baking principles that affect the outcome of food products. This course will include different preparation techniques and ingredients. General lab activities include bread making, cake baking & decorating, desserts, pies and more.
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HEALTH

HEALTH APPLICATIONS Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 521021 OR Semester B: 521022	This course offers an emphasis on decision making & healthy lifestyles. A variety of topics are discussed such as mental health issues like self-esteem, mental illness, suicide. ATODA issues (Alcohol, Tobacco, and other Drugs of Abuse) with an emphasis on alcohol, “street” drugs and “club” drugs as well as addiction and treatment options will also be discussed. Relationships and sexuality issues are also investigated. Topics including relationships, reproduction, and STI's (Sexually Transmitted Infections) are all discussed. Nutrition & nutrition related topics are also included.
HEALTH OCCUPATIONS Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 723021 OR Semester B: 723022	The field of Health Care is full of opportunities and growing rapidly every year. Students will have many opportunities to investigate the wide range of career opportunities in health. A variety of guest speakers and activities are offered during the semester. Students will study ethics, medical history, the health system and medical terminology. <i>This course is also offered under Family and Consumer Sciences.</i>

MATHEMATICS

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Highly Accelerated Course Sequence:			
Algebra II or Algebra II Honors	AP Precalculus	AP Calculus AB or Math Electives (AP Stats, TC Stats, TC College Algebra & Trig w/ Apps)	AP Calculus BC, AP Calculus AB, or Math Electives (AP Stats, TC Stats, TC College Algebra & Trig w/ Apps)
Accelerated Course Sequence:			
Geometry or Geometry Honors	Algebra II or Algebra II Honors	AP Precalculus	AP Calculus AB or Math Electives (AP Stats, TC Stats, TC College Algebra & Trig w/ Apps)
Traditional Course Sequence:			
Algebra I or Algebra I Honors	Geometry or Geometry Honors	Algebra II or Algebra II Honors	AP Precalculus or Math Electives (AP Stats, TC Stats, TC College Algebra & Trig w/ Apps, Math for the Workplace, Advanced Algebra with Discrete Mathematics)

ADVANCED ALGEBRA WITH DISCRETE MATHEMATICS

Grades: 11, 12

SDJ Credit: 0.5 or 1.0

Length: Semester or Year

Prerequisites: Algebra II or Algebra II Honors

Course Number: Semester A: 542441

AND/OR Semester B: 542442

ADVANCED ALGEBRA WITH DISCRETE MATHEMATICS A: This course will analyze the common core math standards beyond those previously learned in Algebra 1, Geometry, and Algebra 2. Students will learn about the complex number system, logic statements, and advanced topics in trigonometry and geometry, and they will focus on how to apply these topics to real-world situations. This course will also help prepare students for the ACT and placement tests at the post-secondary level.

ADVANCED ALGEBRA WITH DISCRETE MATHEMATICS B: This course will analyze the common core math standards beyond those previously learned in Algebra 1, Geometry, and Algebra 2. Students will learn about a variety of math systems, such as modular arithmetic, matrices, and additional content related to statistics and probability. They will focus on how to apply these topics to real-world situations. This course will also help prepare students for the ACT and placement tests at the post-secondary level. Students do not need to take Integrated Math IV Including Discrete Mathematics A to be enrolled in this course.

Students can enroll in this course during semester 1, semester 2, or for the entire year.

TC ADVANCED COMPUTER SCIENCE

AB – JAVA (EM)

Grades: 11, 12

SDJ Credit: 1.0

Length: Year

Prerequisites: AP Computer Science A - JAVA

Course Number: Semester A: 684221

AND Semester B: 684222



This yearlong course is comparable to the second course in the introductory sequence for computer science majors in college. Advanced Computer Science AB is intended to serve both as a second step for computer science majors and as a course for students who will major in other disciplines that require significant involvement with technology. JAVA is a platform independent language, and the programs students write will compile successfully on all operating systems. Upon completion of the course, students will have finished the equivalent of a second semester course in college computer science. **Students will be responsible for paying for the tuition, which is about one third of the cost as an undergraduate (approximately \$300).**

This course is also offered under Computer Science.

AP CALCULUS AB

Grades: 11, 12

SDJ Credit: 1.0

Length: Year

Prerequisites: AP Precalculus or

Instructor Consent

Course Number: Semester A: 545021

AND Semester B: 545022

The purpose of this course is to introduce students to limits, derivatives, integrations and their applications. This is university level calculus. Students will have the opportunity to take the Advanced Placement exam.

A graphing calculator is recommended for this course.

AP CALCULUS BC Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: AP Precalculus Course Number: Semester A: 545121 AND Semester B: 545122	This is a full year course in the calculus of functions of a single variable. It includes all topics covered in Calculus AB plus parametric, polar, and vector functions; improper integrals; differential equations; advanced integration techniques; polynomial approximations and series. This is university level calculus. Students will have the opportunity to take the Advanced Placement exam. <i>A graphing calculator is recommended for this course.</i>
AP COMPUTER SCIENCE A – JAVA (EM) Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Algebra I Course Number: Semester A: 684321 AND Semester B: 684322	This yearlong course is comparable to the first course in the introductory sequence for computer science majors in college. The AP Computer Science A course is intended to serve both as an introductory course for computer science majors and as a course for students who will major in other disciplines that require significant involvement with technology. JAVA is a platform independent language and the programs students write will compile successfully on all operating systems. Students will have the opportunity to take the Advanced Placement exam. <i>This course is also offered under Computer Science.</i>
AP COMPUTER SCIENCE PRINCIPLES (EM) Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Algebra I Course Number: Semester A: 684521 AND Semester B: 684522	This course offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cyber-security concerns, and computing impacts. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. Students will have the opportunity to take the Advanced Placement exam. <i>This course is also offered under Computer Science.</i>
AP PRECALCULUS Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Algebra II or Algebra II Honors Course Number: Semester A: 544921 AND Semester B: 544922	Taking AP Precalculus prepares you for other college-level mathematics and science courses. During the course, you'll explore everyday situations using mathematical tools and lenses. You'll also develop an understanding of modeling and functions, and examine scenarios through multiple representations. The course framework outlines content and skills needed for careers in mathematics, physics, biology, health science, social science, and data science. Units of study include: Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometric and Polar Functions, and Functions involving Parameters, Vectors, and Matrices.
AP STATISTICS Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Algebra II or AP Precalculus Course Number: Semester A: 545221 AND Semester B: 545222	AP Statistics introduces students to the major concepts and tools for collecting, organizing, analyzing, and interpreting data. Students will explore patterns in data, plan and conduct a study through sampling and experimentation, anticipate patterns using probability and simulation, and estimate population parameters. Students will also make inferences about a population based on smaller samples. Introductory statistics is typically required for majors such as social sciences, health sciences and business. Science, engineering and mathematics majors usually take an upper-level calculus-based course in statistics, for which the AP Statistics course is preparation. Students planning to enroll in college Calculus are encouraged to take this course concurrently with either AP Precalculus or AP Calculus. Students will have the opportunity to take the AP exam. <i>A graphing calculator is recommended for this course.</i>
ALGEBRA I Grades: 9 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 540121 AND Semester B: 540122	The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. Students will deepen and extend their understanding of linear and exponential relationships and engage in methods for analyzing, solving, and using quadratic functions, as well as make sense of problems to solve.

ALGEBRA I - HONORS Grades: 9 SDJ Credit: 1.0 Length: Year Prerequisites: Instructor Consent Course Number: Semester A: 540021 AND Semester B: 540022	This course includes all topics covered in Algebra 1 and additional related content, such as linear programming. This course requires students to demonstrate deeper proficiencies related to the conceptual understanding, procedural fluency, and application of the standards. Students will apply the Math Practice Standards to solve complex problems that require multiple steps.
ALGEBRA II Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Geometry or Geometry Honors Course Number: Semester A: 543121 AND Semester B: 543122	Students will build on their work with linear, quadratic, and exponential functions, and extend their repertoire of functions to include polynomial, rational, and radical functions. They will work closely with expressions and continue to expand their abilities to model situations and solve equations, such as exponential equations using the properties of logarithms. Students will make sense of problem situations to solve.
ALGEBRA II - HONORS Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Geometry, Geometry Honors, or Consent of Instructor Course Number: Semester A: 543441 AND Semester B: 543442	This course includes all topics covered in Algebra II and additional content standards, such as inverse relations and functions and matrices. This course requires students to demonstrate deeper proficiencies related to the conceptual understanding, procedural fluency, and application of the standards. Students will apply the Math Practice Standards to solve complex problems that require multiple steps.
 TC COLLEGE ALGEBRA & TRIGONOMETRY w/ APPS Grades: 11, 12 SDJ Credit: 1.0 Length: Semester, Two Hour Block Prerequisites: Algebra II, Algebra II Honors, or AP Precalculus Course Number: Semester A: 544141 OR Semester B: 544142 (one course number registers student for both hours)	This course covers skills needed for success in Calculus and many application areas at the baccalaureate level. Algebra topics include the real and complex number systems, polynomials, exponents, radicals, solving equations and inequalities, relations and functions, systems of equations and inequalities, graphing, and conic sections. Trigonometry topics include the unit circle, trigonometric functions, graphs, identities, equations, inverse functions, solutions of triangles, complex numbers, polar coordinates, and vectors. <i>Transcribed credit may be offered if the SDJ has a licensed staff member employed to teach this course. This is a college course that will produce a permanent college transcript and grade point average for each student. If you believe that producing a permanent college transcript and grade point is not in your best interest academically at this time, please consider requesting a non-transcribed credit (TC) course. If you need more information about Transcribed Credit, see your counselor before requesting courses.</i>
COMPUTER PROGRAMMING I (EM) Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 681121 OR Semester B: 681122	Computer Programming I is a beginning programming course. Students will learn a modern object orientated programming language that produces programs for Macintosh or Windows machines. Students will design programs that will include music, audio, movies, graphics and interactive real-world applications. These projects will emphasize communication of ideas and information available to a wide range of student interests. This will allow for a smooth transition to other languages such as JAVA and C++. Topics include the use of algorithms and variables with decision and repeat structures. <i>This course is also offered under Computer Science.</i>
COMPUTER PROGRAMMING II (EM) Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Computer Programming I Course Number: Semester A: 681221 OR Semester B: 681222	Computer Programming II is the advanced programming course that expands upon the computing knowledge and skills acquired in the Computer Programming I class. Students will learn advanced programming techniques. Multimedia projects will include the use of video and sound technologies. The emphasis will be on effective communication of ideas and information through high level programming strategies involving objects and classes. These strategies include control structures and the handling of numerical and textual data through functions and classes. <i>This course is also offered under Computer Science.</i>

 DIGITAL ELECTRONICS (EM) Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Intro to Engineering Design and Algebra I or Algebra I Honors Course Number: Semester A: 782221 AND Semester B: 782222	Digital Electronics introduces students to the fundamentals and applications of digital electronics, programmable logic controls, and the application of electronic circuits and devices. Students will design and test digital circuitry through a blend of hands-on and academic activities. <i>This course is also offered under Technology and Engineering.</i>
GEOMETRY Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Algebra I or Algebra I Honors Course Number: Semester A: 543021 AND Semester B: 543022	The fundamental purpose of this course is to formalize and extend students' geometric experiences. Students explore complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Course content will also include transformations. Students will make sense of problem situations to solve.
GEOMETRY - HONORS Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Algebra I, Algebra I Honors, or Consent of Instructor Course Number: Semester A: 542021 AND Semester B: 542022	This course includes all topics covered in Geometry and additional content standards, such as applications of the Law of Sines and Cosines to find unknown measurements in triangles. This course requires students to demonstrate deeper proficiencies related to the conceptual understanding, procedural fluency, and application of the standards. Students will apply the Math Practice Standards to solve complex problems that require multiple steps.
 TC INTRODUCTORY STATISTICS Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Algebra II, Algebra II Honors, or AP Precalculus Course Number: Semester A: 545321 OR Semester B: 545322	Students taking Introductory Statistics display data with graphs, describe distributions with numbers, perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. <i>Transcripted credit may be offered if the SDJ has a licensed staff member employed to teach this course. This is a college course that will produce a permanent college transcript and grade point average for each student. If you believe that producing a permanent college transcript and grade point is not in your best interest academically at this time, please consider requesting a non-transcripted credit (TC) course. If you need more information about Transcripted Credit, see your counselor before requesting courses.</i>
AS MATH FOR THE WORKPLACE Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Algebra II Course Number: Semester A: 545131 AND Semester B: 545132	This course begins with the basic principles of arithmetic as applied to typical manufacturing and construction problems and continues with the study of the properties of circles, volumes and surface areas of various solids, an introduction to practical algebra and trigonometric principles used in solving right triangles as well as applications of the sine and cosine law in solving oblique triangles.
MATH STRATEGIES I <i>Offered at Parker Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Take concurrently with Algebra I Course Number: Semester A: 541111 AND Semester B: 541112	This math intervention course is designed to be taken simultaneously with Algebra 1. Students will work on developing the essential math skills that are the foundation of the high school math curriculum. Students will also learn and practice different strategies to help them succeed in their core math class. <i>Students should also be enrolled in Algebra 1. This course does not meet mathematics graduation requirements.</i>

MATH STRATEGIES II <i>Offered at Parker Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Take concurrently with Geometry Course Number: Semester A: 542321 AND Semester B: 542322	This math intervention course is designed to be taken simultaneously with Geometry. Students will work on developing the essential math skills that are the foundation of the high school math curriculum. Students will also learn and practice different strategies to help them succeed in their core math class. <i>Students should also be enrolled in Geometry. This course does not meet mathematics graduation requirements.</i>
MATH STRATEGIES III <i>Offered at Parker Only</i> Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Take concurrently with Algebra II Course Number: Semester A: 543221 AND Semester B: 543222	This math intervention course is designed to be taken simultaneously with Algebra II. Students will work on developing the essential math skills that are the foundation of the high school math curriculum. Students will also learn and practice different strategies to help them succeed in their core math class. <i>Students should also be enrolled in Algebra 2. This course does not meet mathematics graduation requirements.</i>

MUSIC

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Orchestra Course Sequence:			
Philharmonic Orchestra	Philharmonic Orchestra or Symphonic Orchestra		
Band Course Sequence:			
Concert Band	Concert Band, Symphonic Band, or Wind Ensemble		
Craig Choir Course Sequences:			
Serenade Choir (All Voices)	Serenade Choir, Bella Voce, or Cantorum Choir		
Parker Choir Course Sequences:			
Aurora Choir (Soprano & Alto Voices)	Aurora Choir, Bel Canto Choir, or Cantorum Choir		
Viking Choir (Tenor & Bass Voices)	Viking Choir or Cantorum Choir		

AP MUSIC THEORY Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Introduction to Music Theory / Music History or Consent of Instructor Course Number: Semester A: 766401 AND Semester B: 766402	Music oriented students will be exposed to a rigorous, systematic study of the musical process. Students will become competent in rhythm, melody, keyboard studies, scales, key signatures, intervals, triads, tonality, sight-singing, part writing, composition, and electronic music. Students will have the opportunity to take the Advanced Placement exam. Depending on the number of students registered at each school, this course may or may not be a site-specific class.
AURORA CHOIR <i>Offered at Parker Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 753541 AND Semester B: 753542	Aurora Choir is a curricular Level I choir for 9th-12th grade sopranos and altos. Emphasis is placed on the development of proper singing technique during the changing voice. The curriculum focuses on healthy and efficient vocal production, ensemble techniques, choral repertoire from varied cultures, time periods, and styles, and music literacy through regular sight-singing, ear-training, and music theory. The choir will participate in concerts and festivals throughout the school year.
BEL CANTO CHOIR <i>Offered at Parker Only</i> Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Audition Course Number: Semester A: 764921 AND Semester B: 764922	This course is catered towards the workings of soprano and alto voices. Students selected will be expected to exhibit a high degree of competence in musical and vocal skills. Work in the Bel Canto Choir will center around techniques in using the singing voice for both solo and ensemble work. Understanding will be gained in music of many periods and styles, although the "classics" of choral literature are highly emphasized. Through musical analysis and performance, Bel Canto Choir students are engaged in exploring great music. Attendance is required at all scheduled performances. Students are encouraged to participate in the musical and District Solo and Ensemble Festival. Students may repeat for credit each year.

BELLA VOCE <i>Offered at Craig Only</i> Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Audition Course Number: Semester A: 764021 AND Semester B: 764022	This course is catered towards the workings of soprano and alto voices. Students selected will be expected to exhibit a high degree of competence in musical and vocal skills. Work in the Bella Voce Choir will center around techniques in using the singing voice for both solo and ensemble work. Understanding will be gained in music of many periods and styles, although the “classics” of choral literature are highly emphasized. Through musical analysis and performance, Bella Voce Choir students are engaged in exploring great music. Attendance is required at all scheduled performances. Students are encouraged to participate in the musical and District Solo and Ensemble Festival. Students may repeat for credit each year.
CANTORUM Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Audition Course Number: Semester A: 764521 AND Semester B: 764522	Students selected will be expected to exhibit a high degree of competence in musical and vocal skills. Work in the Cantorum Choir will center around techniques in using the singing voice for both solo and ensemble work. Understanding will be gained in music of many periods and styles, although the “classics” of choral literature are highly emphasized. Through musical analysis and performance, Cantorum Choir students are engaged in exploring great music. Students electing Cantorum Choir must audition with the instructor. Students are encouraged to participate in the Musical and District Solo and Ensemble Festival. The choir usually participates in at least 4 concerts. Attendance is required at all scheduled performances. Students may repeat for credit each year.
CONCERT BAND Grades: 9 SDJ Credit: 1.0 Length: Year Prerequisites: 8th Grade Band or Consent of Instructor Course Number: Semester A: 761021 AND Semester B: 761022	This is the freshman band. This band performs a wide variety of music, with emphasis placed on continued growth and development of playing skills, as well as ensemble performance skills. During the first quarter, emphasis is on preparation for marching band performances at parades and home football games. This includes some required outside-of-class rehearsals; these rehearsals do not conflict with other sports practices or games. During the remaining three quarters, students perform at several concerts. Outside-of-school performances are a class requirement. Practice time outside of class is required and considered vital to the student's growth on his/her instrument. Students also participate in the pep band which performs at a number of home athletic events. Students will receive information on the summer band camp. Participation in District Solo and Ensemble Festival is optional and encouraged. Grading is based on performance and written assessments. Students may repeat for credit each year.
INTRODUCTION TO MUSIC THEORY / MUSIC HISTORY Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 766421 OR Semester B: 766422	This course is an introduction to Music Theory and Music History. Basic music theory concepts will be introduced such as note names, rhythmic structures, scales, key signatures and other foundational music concepts. This course will also focus on music from all periods (Medieval, Renaissance, Baroque, Classical, Romantic and 20th Century) and its composers. Students who are interested in taking AP Music Theory are encouraged to take this course.
JAZZ ENSEMBLE Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Audition Course Number: Semester A: 761621 AND Semester B: 761622	Jazz Ensemble is a performance group that will rehearse and perform a variety of jazz music from all associated musical eras including, but not limited to, big bands, progressive, blues, Dixieland, modern, fusion and bebop. Students will also study the origins and history of jazz music. Written and performance assignments and assessments will be used. The Jazz Ensemble is open to all students. Instrumentation includes brass and woodwind instruments as well as piano, guitar, and bass guitar, drum set and mallet percussion instruments. Students must have played an instrument for at least one year.
MOVIES & MUSIC Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 767021 OR Semester B: 767022	This class is one semester and is intended to look at how music can improve, affect or even detract from the story that is being presented on screen. There is also an emphasis on various aspects of the craft of making movies. We will follow primarily a historic timeline beginning with the first commercially successful “talking” picture through musicals, movies with political overtones, action, horror and science fiction. After each film we view, you will have short writing assignments to be completed on your Chromebook in class that will include some technical information about the film as well as your reactions to the story and the music. There may also be a number of written tests and/or quizzes that will assess what you have learned. Some of the testing may include identifying the source and title of musical examples that will be played for you.

MUSIC TECHNOLOGY I <i>Offered at Parker Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 763001 OR Semester B: 763002	This course introduces students to the study of music technology and music fundamentals. It features the latest developments in music technology, such as synthesizers, computers, and recording equipment. The historical aspects of music technology will be discussed from early M.I.D.I. (Musical Instrument Digital Interface) applications to the latest equipment and computer software. A variety of compositional software will be used such as Sibelius, Finale, Audacity and Garage Band. Students will learn basic piano keyboard techniques as well as how to arrange music for everything from Bach Chorales to Popular Music for a variety of instruments and voices. Students will learn a variety of computer note entries as well as basic recording techniques.
MUSIC TECHNOLOGY II <i>Offered at Parker Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Music Technology I or Consent of Instructor Course Number: Semester A: 763011 OR Semester B: 763012	This course will explore real-life applications of microphones, recording equipment, video and audio editing and applications in concert settings. Students will work directly with the equipment found in the recording studio and in the auditorium. This is a class designed for students who are interested in pursuing a career in sound engineering or another music technology field.
PHILHARMONIC ORCHESTRA Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: 8th Grade Orchestra or Consent of Instructor Course Number: Semester A: 766021 AND Semester B: 766022	Students in this ensemble are involved in exploring new techniques to develop musicianship. The music performed by the orchestra is selected for expanding the scope of musical understanding and for improving the technical skills of the students enrolled. Music of many periods and styles are studied and opportunity is offered for chamber ensemble performance. Attendance is required at all performances. Students may repeat for credit each year.
SERENADE CHOIR <i>Offered at Craig Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 763021 AND Semester B: 763022	Serenade Choir is a curricular Level I choir for 9th-12th grade sopranos and altos. Emphasis is placed on the development of proper singing technique during the changing voice. The curriculum focuses on healthy and efficient vocal production, ensemble techniques, choral repertoire from varied cultures, time periods, and styles, and music literacy through regular sight-singing, ear-training, and music theory. The choir will participate in concerts and festivals throughout the school year.
SPOTLIGHTERS SHOW CHOIR <i>Offered at Craig Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: By Audition Course Number: Semester A: 763321 AND Semester B: 763322	Spotlighters Show Choir Show choir is an auditioned performance group that combines singing and choreography, and is often offered as a year-long course. The course helps students develop their vocal skills, musicianship, and performance skills. Students will perform at choir concerts, and compete 5-6 Saturdays during the months of January-March.
SYMPHONIC BAND Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Concert Band Course Number: Semester A: 761521 AND Semester B: 761522	This is the intermediate level band. This band performs a wide variety of music, with emphasis placed on continued growth and development of playing skills, as well as ensemble performance skills. During the first quarter, emphasis is on preparation for marching band performances at parades and home football games. This includes some required outside-of-class rehearsals. During the remaining three quarters, students perform at several concerts. Outside-of-school performances are a class requirement. Practice time outside of class is required and considered vital to the student's growth on his/her instrument. Students also participate in the pep band which performs at a number of home athletic events. Students will receive information on the summer band camp. Participation in District Solo and Ensemble Festival is optional and encouraged. Grading is based on performance and written assessments. Students may repeat for credit each year.

SYMPHONIC ORCHESTRA Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Philharmonic Orchestra and Consent of Instructor Course Number: Semester A: 766121 AND Semester B: 766122	Students selected for this ensemble have demonstrated the musicianship necessary to perform intermediate to advanced literature for orchestra. Emphasis is placed on developing musicianship, musical sensitivity, and performance skills in large and small ensembles. Attendance is required at all performances. Students may repeat for credit each semester or year.
THEATER DESIGN & CONSTRUCTION <i>Offered at Craig Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester B Only Prerequisites: None Course Number: Semester B: 783522	Theater Design and Construction will expose students to set design and construction as well as theatrical lighting and sound in this hands-on class. Students will be making the sets and props for the current musical/theatrical productions as well as working with sounds and lighting for the shows. This course may be taken multiple academic years for credit. <i>This course is also offered under Technology and Engineering.</i>
VIKING CHOIR <i>Offered at Parker Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 753531 OR Semester B: 753532	The Viking Choir is a curricular Level I choir for 9th-12th grade tenors and basses. Emphasis is placed on the development of proper singing technique during the changing voice. The curriculum focuses on healthy and efficient vocal production, ensemble techniques, choral repertoire from varied cultures, time periods and styles, and music literacy through regular sight-singing, ear-training, and music theory. The choir will participate in concerts and festivals throughout the school year.
WIND ENSEMBLE Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Audition Course Number: Semester A: 762021 AND Semester B: 762022	This ensemble is composed of select musicians who have demonstrated the musicianship necessary to perform more advanced works for wind ensemble or full band. Emphasis is placed on the development of musicianship, aesthetic sensitivity, and performance skills. During the first quarter, emphasis is on preparation for marching band performances at parades and home football games. This includes some required outside of class rehearsals; these rehearsals do not conflict with other sports practices or games. During the remaining three quarters, students perform at several concerts. Outside-of-school performances are a class requirement. Practice time outside of class is required and considered vital to the student's growth on his/her instrument. Students also participate in the pep band which performs at a number of home athletic events. Students will receive information on the summer band camp. Participation in District Solo and Ensemble Festival is optional and encouraged. Grading is based on performance and written assessments. Students may repeat for credit each year.

PHYSICAL EDUCATION

9th Grade

10th Grade

11th Grade

12th Grade

Core Course Sequence:

Core Physical
Education 9

Core Phy Ed 10-12 or
Phy Ed Electives

(Team Sports, Lifetime Health & Fitness, Lifeguarding, Strength, Agility, & Conditioning, Pre-Cadet Leadership, Athletic Performance & Training)

Core Phy Ed 10-12 or
Phy Ed Electives

(Team Sports, Lifetime Health & Fitness, Lifeguarding, Strength, Agility, & Conditioning, Pre-Cadet Leadership, Cadet Leadership, Athletic Performance & Training)

Core Phy Ed 10-12 or
Phy Ed Electives

(Team Sports, Lifetime Health & Fitness, Lifeguarding, Strength, Agility, & Conditioning, Adventure Phy Ed, Cadet Leadership, Athletic Performance & Training)

Strength Course Sequence:

Freshman Weight
Training
(Cannot be taken in place
of Core 9)

Strength, Agility & Conditioning I

(if student has NOT taken Freshman Weight Training or Strength, Agility & Conditioning I)

or

Strength, Agility & Conditioning II

(if student HAS taken Freshman Weight Training or Strength, Agility & Conditioning I)

ADVENTURE PHYSICAL EDUCATION

Grades: 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: Senior Status, All Phy Ed Requirements Met, Comfort in Deep Water

Course Number: Semester A: 565221

OR Semester B: 565222

Adventure PE is a combination of adventure-based education and outdoor pursuits. This class exposes students to different opportunities, ways of thinking, problem-solving, and outdoor recreational activities that are commonplace in our area. Activities include but are not limited to Teambuilding: get acquainted, movement, communication, problem solving, trust building, and debriefing/processing. Survival: map and compass, geocaching, wilderness first aid, camping, outdoor cooking, fire-starting, and trip planning. Outdoor Pursuits: canoeing, hiking, snow shoeing, downhill skiing, and archery. There are also field trip experiences available that may include but are not limited to: canoeing / kayaking, high ropes challenge courses, downhill skiing, and adventure parks. Fees are required for these experiences. Other trips may be offered as opportunities arise. **1.5 credits of PE requirements need to be met before taking this class.**

AMERICAN RED CROSS LIFEGUARD TRAINING

Grades: 10, 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: Age 15 by end of course and Passed ARC Level IV or able to swim 300 yards front crawl & breaststroke

Course Number: Semester A: 565121

OR Semester B: 565122

Upon completion of required skills and receiving 80% or better on written tests, students will become certified as an American Red Cross Lifeguard. American Red Cross training makes learning fun and easy. Through classroom learning and hands-on practice, students will learn:

- Surveillance skills to help recognize and prevent injuries
- Rescue skills – in the water and on land
- First aid training and professional rescuer CPR/AED – to help prepare for any emergency
- Professional lifeguard responsibilities like interacting with the public and addressing uncooperative patrons

\$47 Red Cross Certification Fee. In addition to the fee, students need to purchase the required course materials (Red Cross Lifeguard Manual and Rescue Mask)

ATHLETIC PERFORMANCE & TRAINING

Grades: 10, 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: Freshman Weight Training or Strength, Agility, & Conditioning I

Course Number: Semester A: 565311

OR Semester B: 565312

This course is designed to effectively and safely take you to the next level in your athletic performance. Each day you will complete a group workout specifically designed to improve your overall strength, power, explosiveness, speed, agility and endurance with a continual emphasis on overall physical athletic performance. Students will train in an environment that will breed success in the training setting that will carry over to the competition level. Competitive warm-ups, dynamic Olympic lifts, and explosive speed and agility drills will be used on a weekly basis. Each student should expect to train at a high level during class with an overall focus on becoming more athletic through movement education. Strongly encouraged for student athletes of any season. Instructor approval can satisfy pre-requisites.

CORE PHYSICAL EDUCATION GRADE 9

Grades: 9

SDJ Credit: 0.5

Length: Semester

Prerequisites: None

Course Number: Semester A: 561021

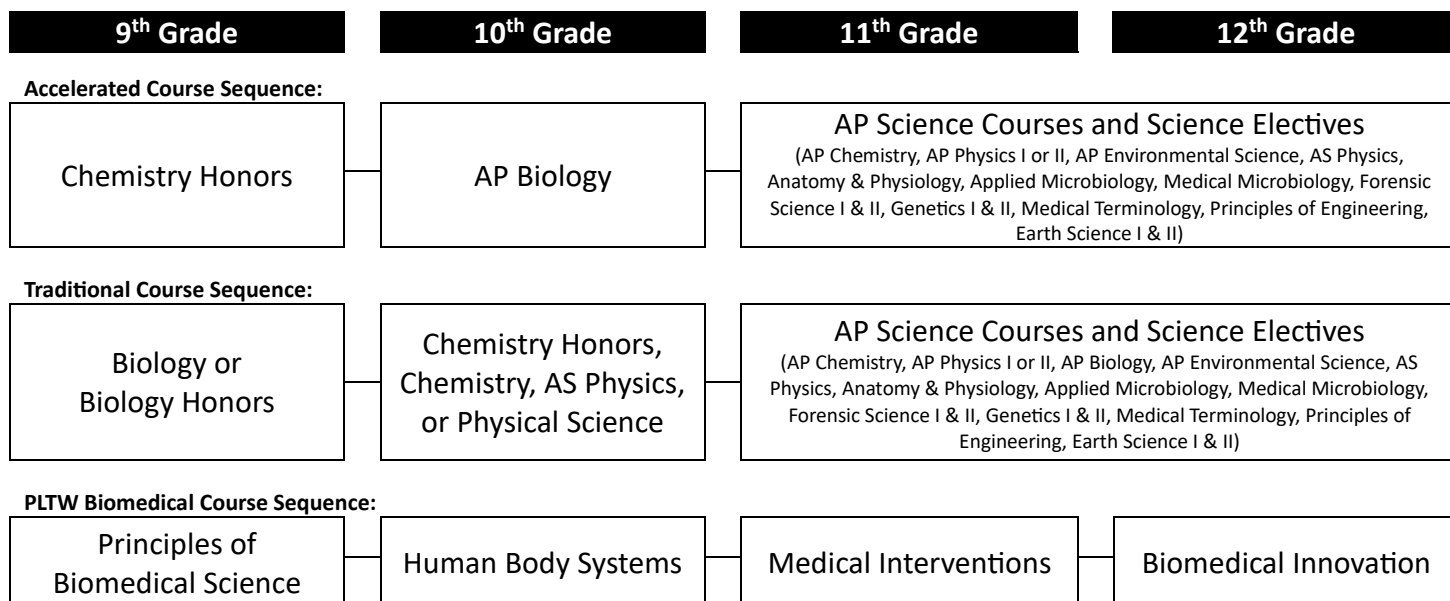
OR Semester B: 561022

Curriculum covered in this course is intended for personal fitness improvement, enjoyment of lifetime activities and overall wellness. Students will participate in a variety of units that balance fitness, individual sports and team sports. The focus of the fitness unit is for students to acquire knowledge about the components of fitness, learn about the benefits of exercise and participate in fitness activities. Individual sports include, but not limited to, badminton, swim, pickle ball and weight training. Team sports include, but are not limited to, ultimate, basketball, speedball and soccer.

CORE PHYSICAL EDUCATION GRADES 10-12 Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 562021 OR Semester B: 562022	Core Physical Education for 10th, 11th, & 12th grade is designed for the students who want to continue developing the <u>basic</u> skills and knowledge to participate in a variety of activities. The curriculum covered in this course is intended for personal fitness improvement, enjoyment of lifetime activity and overall wellness. The curriculum could include but is not limited to: Badminton, tennis, pickleball, fitness conditioning, basketball, slow pitch softball, volleyball, soccer, ultimate games and other team sports. The first semester passed will count as the required physical education credit for graduation, second semester will count towards a passed elective credit. Students must take PE credits over 3 years.
FRESHMAN WEIGHT TRAINING Grades: 9 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 564011 OR Semester B: 564012	As students enter high school, it is a time when many students want to weight train seriously and with a purpose. Without proper knowledge of training and safety students can be putting themselves at risk for injuries. Freshman weight training will help to ensure students have the knowledge to be successful and benefit from strength training.
LIFETIME HEALTH & FITNESS Grades: 10, 11, 12 SDJ Credit: 0.5 or 1.0 Length: Semester or Year Prerequisites: None Course Number: Semester A: 564021 AND/OR Semester B: 564022	This class is designed to help students improve their fitness knowledge and fitness levels. Students will participate in a variety of cardiovascular activities, flexibility training, muscular strength and endurance, and resistance training activities. The emphasis of this course is to introduce the students to a wide variety of personal fitness concepts that they may actively engage in outside of the classroom. The goal of the class is to provide instruction while enjoying the execution of activities that lead to a lifetime of wellness. Some of the activities covered in this course may include: interval workouts on cardiovascular equipment, agility activities, fitness activities using bosu balls, resistance bands, stability ball equipment, step aerobics, Pilates, yoga, water activities, Zumba, self-defense and lifetime based games. The first semester passed will count as the required physical education credit for graduation, second semester will count towards a passed elective credit. Students must take PE credits over 3 years.
PHYSICAL EDUCATION ALTERNATIVE Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Instructor Consent Course Number: Semester A: 568721 OR Semester B: 568722	Alternative physical education is a semester course in which students will participate in physical activities to promote wellness. The activities can be but are not limited to walking, weightlifting, basketball, volleyball, tennis, water games, kickball, badminton, and paddleball. Students will participate in daily physical activities. They will learn the rules and promote classroom safety.
PHYSICAL EDUCATION CADET LEADERSHIP Grades: 11, 12 SDJ Credit: 0.5 or 1.0 Length: Semester or Year Prerequisites: Pre-Cadet Leadership Course Number: Semester A: 563121 AND/OR Semester B: 563122	This course provides opportunities for the students to use and strengthen their leadership skills. They assist the physical education teacher in a variety of ways which include but are not limited to: leading warm-ups, equipment set up, officiating and the development of skills Students may be required to purchase a cadet shirt for a minimal fee and wearing the cadet shirt is required daily. The first semester passed will count as the required physical education credit for graduation, second semester will count towards a passed elective credit. Students must take PE credits over 3 years.
PRE-CADET LEADERSHIP CLASS Grades: 10, 11 SDJ Credit: 1.0 Length: Year Prerequisites: Application and Consent of Instructor Course Number: Semester A: 563021 AND Semester B: 563022	This course is a comprehensive program focusing on: positive leadership skills; skills needed to assist the physical education instructor and students in class; learning the rules and skills to participate and officiate in the various activities offered at the high school level. After completion of the class, if the student is passed on to be a cadet leader, the student is required to be a cadet Leader for a minimum of 1 semester during their junior/senior year. Students may be required to purchase a pre-cadet shirt for a minimal fee. Students will be required to wear the cadet shirt in class daily.

STRENGTH, AGILITY, & CONDITIONING I Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 564121 OR Semester B: 564122	In Strength, Agility, and Conditioning I, students will gain an understanding of training principles and their application to the achievement and maintenance of physical fitness. Fundamental comprehension of strength and conditioning concepts will be gained through the completion of this course. These concepts include, but are not limited to: strength training principles, program design, and safety. Students will gain knowledge necessary to develop training programs based on their individual needs and goals.
STRENGTH, AGILITY, & CONDITIONING II Grades: 10, 11, 12 SDJ Credit: 0.5 or 1.0 Length: Semester or Year Prerequisites: Freshman Weight Training or Strength, Agility, & Conditioning I Course Number: Semester A: 565411 AND/OR Semester B: 565412	In Strength, Agility, and Conditioning II, students will further their understanding of training principles and their application to the achievement and maintenance of physical fitness. A more detailed approach to strength and conditioning concepts will take place in this course. Most importantly, program design will be emphasized. Students will demonstrate their understanding of strength and conditioning concepts through the development and implementation of individualized training programs. <i>The first semester passed will count as the required physical education credit for graduation, second semester will count towards a passed elective credit. Students must take PE credits over 3 years.</i>
TEAM SPORTS Grades: 10, 11, 12 SDJ Credit: 0.5 or 1.0 Length: Semester or Year Prerequisites: None Course Number: Semester A: 564221 OR Semester B: 564222	This course is designed for the physical education student that is interested in participating in various team sports at a highly competitive level. Students will develop a deeper understanding of the rules and regulations of each sport, and more in-depth strategies of each sport. Students will also be working on physical fitness through the components of skill related fitness (agility, balance, coordination, power, and reaction time and speed). The following sports may be covered, but are not limited to: soccer, speedball, flag football, zone football, team handball, volleyball, swim activities, softball, basketball, mat ball, floor hockey, ultimate, etc. <i>The first semester passed will count as the required physical education credit for graduation, second semester will count towards a passed elective credit. Students must take PE credits over 3 years.</i>

SCIENCE



***For a complete list of Life Sciences and Physical Sciences, see Page 6.**

ANATOMY & PHYSIOLOGY Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: 1 Credit of a Life Science Course Number: Semester A: 586121 OR Semester B: 586122	During this course, students will examine the structure and complex functioning of the human body. Students will complete a unit on human tissues, and will begin a detailed analysis of human body systems. Students will participate in data collection laboratory activities, small dissections, and relevant projects related to the systems being studied.
 AS ANIMAL SCIENCES Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Small Animal Care Course Number: Semester A: 621521 OR Semester B: 621522	This course is designed to give students an advanced knowledge of production animals and the science that surrounds the industry. Students will learn about the structural functions of reproduction, digestion, nervous, muscular and endocrine systems. Students will gain an understanding of technical areas such as growth hormones, artificial insemination, embryo transfer, heat synchronization, and cloning to improve efficient livestock production. Science based inquiry, group collaboration in problem solving, and hands-on laboratories activities will be included. Students can expect to take part in FFA activities. <i>This course is also offered under Agricultural Sciences.</i>
AP BIOLOGY Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Chemistry or Chemistry Honors Course Number: Semester A: 582321 AND Semester B: 582322	The AP Biology course is designed to be the equivalent of an introductory college biology course usually taken by life science majors during their first year. The goal of this course is to develop a conceptual framework for exploring and studying modern biology. Content will be covered at a rigorous pace, and laboratory work will stimulate scientific inquiry and critical thinking. The course will cover 4 unifying themes of biology (evolution, system interactions, energetics, and information storage and transmission) through the study of cell biology metabolism, cell communication, genetics, gene expression, evolution, and ecology. Focus will be placed on developing universal scientific practices. Students will have the opportunity to take the Advanced Placement exam.
AP CHEMISTRY Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Chemistry or Chemistry Honors, and Geometry or Geometry Honors Course Number: Semester A: 583221 AND Semester B: 583222	This is a demanding college-level course. Topics include atomic structure, bonding, chemical reactions, physical and chemical changes, thermodynamics, reaction rates, equilibrium, and electrochemistry. Students will have the opportunity to take the Advanced Placement exam.

AP ENVIRONMENTAL SCIENCE Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Algebra I and Biology +1 credits of science or Wildlife Ecology & Field Study Course Number: Semester A: 623231 AND Semester B: 623232	AP Environmental Science will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. This course may involve field work at JSOL. Students will have the opportunity to take the Advanced Placement exam.
AP PHYSICS I Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Geometry or Geometry Honors Course Number: Semester A: 584121 AND Semester B: 584122	AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion. Students will have the opportunity to take the Advanced Placement exam. This course is recommended for students interested in studying science: teaching science, engineering, astronomy, robotics, architecture, environmental science, medicine, nursing, and other careers in the medical field.
AP PHYSICS II Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: AS Physics or AP Physics I Course Number: Semester A: 584221 AND Semester B: 584222	AP Physics II is a continuation of the topics covered in first year physics. This course will cover fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics. Students will gain knowledge through class discussion, problem solving, and laboratory activities. Students will have the opportunity to take the Advanced Placement exam.
APPLIED MICROBIOLOGY Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Biology, Biology Honors, AP Biology, or Consent of Instructor Course Number: Semester A: 582521	Students will develop the skills and lab techniques required to research bacteria. Multiple lab investigations, including cultivation and isolation are required so that students can independently identify bacterial species. These techniques can be applied in biotechnology fields of research such as cancer research, genetic recombination therapy, and industrial applications.
AEROSPACE ENGINEERING (ES) Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Alternate Year at Parker: Offered 2026-2027 Prerequisites: Geometry or Geometry Honors Course Number: Semester A: 782121 AND Semester B: 782122	The major focus of the Aerospace Engineering course is to expose students to the world of aeronautics, flight and engineering. Students will be introduced to the Project Lead the Way activity-based, project-based, and problem-based learning through exploring the world of aerospace engineering. Students should have experience in physics, mathematics and technology education. They will employ engineering and scientific concepts in the solution of aerospace problems. <i>This course is also offered under Technology Education.</i>
  BIOLOGY Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 582121 AND Semester B: 582122	This introductory survey course is designed to help students develop a better understanding of living things and of life functions, as well as develop their scientific skills. Units studied include genetics, evolution, and ecology.
BIOLOGY - HONORS Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 582021 AND Semester B: 582022	This course is designed to help students develop a better understanding of living things and of life functions, as well as develop their scientific skills. Units studied include an in-depth study of genetics, evolution, and ecology and energetics.

 BIOMEDICAL INNOVATION Grades: 12 SDJ Credit: 1.0 Length: Year Prerequisites: Medical Interventions Course Number: Semester A: 586211 AND Semester B: 586212	Students build on the knowledge and skills gained from previous courses in the PLTW Biomedical Series to design their own innovative solutions for the most pressing health challenges of the 21st century.
CHEMISTRY Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Algebra I Course Number: Semester A: 581031 AND Semester B: 581032	Chemistry is a physical science course where students study the composition and physical and chemical properties of various forms of matter. For instance, students identify substances, and the ways they interact, combine and change. Topics of study include items such as the metric system, atomic structure, bonding, the periodic table, chemical equations, gas laws, solutions, and acids and bases. Students in this course will work with chemical equations and solve problems. Chemistry includes applications of math and requires a working knowledge of Algebra.
CHEMISTRY - HONORS Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Algebra I Course Number: Semester A: 583121 AND Semester B: 583122	The main topics studied are the metric system, problem solving, matter, atomic structure, bonding, the periodic table, periodic relationships, chemical equations, kinetic molecular theory, gas laws, solutions, chemical equilibrium, acids, bases and salts. Faster pacing of chemical topics will include a more in-depth study of equilibrium and acid & base topics. A solid Algebra background is necessary to comprehend the math concepts in this course. This course is designed for students planning to take AP Chemistry or pursue a science career. Chemistry is recommended for a career in health, as well as careers requiring a technical or technological background.
EARTH SCIENCE I Grades: 11, 12 SDJ Credit: 0.5 Length: Semester A Only Prerequisites: None Course Number: Semester A: 586011	The Earth Science I course is designed to give a better understanding of our planet and universe. It gives an introduction to several areas that may be of interest as career choices. Topics studied during the first semester (Earth Science I) are geology, astronomy, mineralogy, plate tectonics, earthquakes and volcanoes. <i>This course does not meet the physical science course requirement.</i>
EARTH SCIENCE II Grades: 11, 12 SDJ Credit: 0.5 Length: Semester B Only Prerequisites: None Course Number: Semester B: 586022	The Earth Science II course is designed to give a better understanding of our planet and universe. It gives an introduction to several areas that may be of interest as career choices. Topics studied during second semester (Earth Science II) are cartography, oceanography, and meteorology. <i>This course does not meet the physical science course requirement.</i>
FORENSIC SCIENCE I Grades: 11, 12 SDJ Credit: 0.5 Length: Semester A Only Prerequisites: Physical Science or Chemistry or Chemistry Honors and Biology or Biology Honors Course Number: Semester A: 586321	This course is designed to introduce the science of solving crimes. Students will apply science and math principles to the analysis of evidence. Semester A will include crime scene investigation, fingerprinting, trace evidence including hairs, fibers, tire & footwear impressions, toolmarks, forensic odontology and ballistics. The content will be relevant, engaging, explorative, and very hands-on. <i>Students are not required to take Forensic Science II in order to take Forensic Science I.</i>
FORENSIC SCIENCE II Grades: 11, 12 SDJ Credit: 0.5 Length: Semester B Only Prerequisites: Physical Science or Chemistry or Chemistry Honors and Biology or Biology Honors Course Number: Semester B: 586322	This course is designed to introduce the science of solving crimes. Students will apply science and math principles to the analysis of evidence. Semester B will include evidence collection, blood spatter analysis, DNA evidence, arson & explosions, drugs, and toxicology, forensic anthropology and entomology, and death investigation. The content will be relevant, engaging, explorative, and very hands-on. <i>Students are not required to take Forensic Science I in order to take Forensic Science II.</i>

GENETICS I Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Biology or Biology Honors Course Number: Semester A: 585021 OR Semester B: 585022	During this course, students will concentrate on one of the units in general biology – genetics. DNA, RNA, protein synthesis, mitosis, and meiosis will be reviewed and expanded upon. Problems involving the various patterns of inheritance will be solved by using pedigrees, Punnett squares, and the laws of probability. There is an emphasis on human genetics. Genetic disorders will be studied along with genetic screening and counseling.
GENETICS II Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Genetics I Course Number: Semester A: 585031 OR Semester B: 585032	The purpose of this course is to provide students with an understanding of the importance genes play in our health. In addition, students will develop an appreciation for gene therapies and technologies which have the potential to greatly improve quality of life. Technologies involving bioinformatics, stem cells, gene therapy, forensics, and genetic counseling will be expanded upon. Students will have the opportunity to conduct a DNA sequencing lab.
 HUMAN BODY SYSTEMS Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Biology or Biology Honors and Principles of Biomedical Science Course Number: Semester A: 586111 AND Semester B: 586112	Students experience real-world scenarios and cases to see medicine in action – as they diagnose and provide treatment and rehabilitation to patients at an outpatient center, keep clients safe and healthy on adventure medicine trips in remote locations, and work in a research center to design laboratory investigations to explore development and aging.
INTRODUCTION TO VETERINARY SCIENCE (ES) Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Small Animal Care or AS Animal Science (ES) Course Number: Semester A: 622021 OR Semester B: 622022	This course is designed for students who have a sincere interest in a career related to small animals. For students planning to become a veterinarian, small animal technician, animal scientist, or animal researcher, this course is highly recommended. Topics to be discussed include medical terminology, anatomy, careers, safety, health, reproduction, scientific research and animal welfare. Each student will complete hands-on veterinary skills including weighing an animal, diagnosis and administering a treatment, cleaning, clipping, grooming, and practicing mock surgery procedures. A school or community animal awareness project will be developed and facilitated through the course. Students can expect to take part in FFA activities. <i>This course is also offered under Agricultural Sciences</i>
MEDICAL MICROBIOLOGY Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Biology, Biology Honors, AP Biology, or Consent of Instructor Course Number: Semester B: 582622	This course includes a survey of infectious diseases caused by both viruses and bacteria. Units will also include epidemiology, microbe host interactions, the immune response, and antimicrobials. Students should expect to develop an understanding of infectious diseases and the prevention/control of their spread.
 MEDICAL INTERVENTIONS Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Junior or Senior Status Course Number: Semester A: 582631 AND Semester B: 582632	Students follow the life of a fictitious family and investigate how to prevent, diagnose, and treat disease. This is a lab course that provides students many opportunities to practice their biotech skills. There is a focus on how technology is being used to improve healthcare.
 AS MEDICAL TERMINOLOGY Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester A Only Prerequisites: None Course Number: Semester A: 586521	This course should be taken by students interested in entering the healthcare field or learning the medical language. This course is designed to provide the student with a foundation in the medical language. Throughout this course, students will begin to understand/explore the wide variety of health care careers. Units of study include: in-depth study of word parts to pronounce, spell, build, analyze and define medical terms, and introduction to anatomy & terminology revolving around several body organs/systems. <i>This course counts as elective credit only; it does not count toward required science credits.</i>

PHYSICAL SCIENCE Grades: 10 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 581121 AND Semester B: 581122	This course covers introductory concepts of chemistry and physics. Chemistry topics include measurement, tools of science including the scientific method, matter (physical and chemical properties and changes, classification, structure, and the periodic table), and chemical reactions. Physics topics include forces (related to motion, work and power, energy, heat) and waves (characteristics, light and sound). <i>This course can not be taken for credit if a student has already taken Chemistry or Physics.</i>
 AS PHYSICS Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Geometry Course Number: Semester A: 584111 AND Semester B: 584112	Physics aids students in synthesizing the fundamental concepts and principles concerning matter and energy through the laboratory study of kinematics, dynamics, vectors, wave motion, light, sound, electricity, magnetism, and relativistic mechanics. Students have opportunities to: 1) acquire an awareness of the history of physics and its role in the birth of technology, 2) explore the uses of its models, theories, and laws in its various careers, and 3) investigate physics questions, discover and apply principles, and strengthen problem solving skills.
 AS PLANT SCIENCE ES Grades: 11, 12 SDJ Credit: 0.5 Length: Semester B Only Prerequisites: None, Intro to Agriculture and The Art & Science of Plants are recommended Course Number: Semester B: 621622	Students will study the processes involved in plant growth, production and reproduction. The functions of plant structures, as well as crop production, will also be studied. Genetic improvement of plants, plant diseases, plant cultural practices and harvest of crops will be explored in detail. There will be various identifications of crops, weeds and seeds. Students will work in the school greenhouse to complete lab activities. Students can expect to take part in FFA activities.
 PRINCIPLES OF ENGINEERING Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Alternate Year at Parker: Offered 2025-2026 Prerequisites: None Course Number: Semester A: 581621 AND Semester B: 581622	Are you interested in applying your math and science skills through a mix of hands-on and academic activities? Principles of Engineering are designed to introduce students to the fundamental skill sets necessary to be a successful engineer. Utilizing technology to design experiments, students will fabricate products which meet specific industry requirements. Students may also participate in case studies and team projects. <i>This course is also offered under Technology Education.</i>
 PRINCIPLES OF BIOMEDICAL SCIENCE Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Concurrent enrollment or completion of Biology or Biology Honors Course Number: Semester A: 582611 AND Semester B: 582612	Principles of Biomedical Science (PBS) is a high school course providing foundational knowledge and skills in biology, anatomy & physiology, genetics, microbiology, and epidemiology; it engages students in applying knowledge and skills to real-world situations, cases, and problems. Students take on roles of different medical professionals and are challenged in various scenarios, including investigating a crime scene to solve a mystery, diagnosing and proposing treatment to 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.
ROBOTICS, ENGINEERING, AND PROGRAMMING Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 681321 AND Semester B: 681322	Robotics, Engineering, and Programming is an exciting class to allow students to feel comfortable with the new and sometimes very complicated concepts. To build an autonomous robot, students must learn the basic concepts of computer programming, design, electrics, engineering, and mechanics. <i>This course is also offered under Technology Education.</i>

SOCIAL STUDIES

9th Grade

10th Grade

11th Grade

12th Grade

Accelerated Course Sequence:

AP Human Geography

AP United States
History

AP US Government & Politics (11 or 12)

(May also take Social Studies Electives one or both years: AP Psychology, AP European History, AP World History, TC Psychology, TC Sociology, Economics, Humanities A & B, Multicultural American History, Contemporary Issues, History Through Art I & II)

Traditional Course Sequence:

World Studies

United States History

The American Political Process (11 or 12)

(May also take Social Studies Electives one or both years AP Psychology, AP European History, AP US Government, AP World History, TC Psychology, Psychology, TC Sociology, Sociology Economics, Humanities A & B, Multicultural American History, Contemporary Issues, History Through Art I & II)

THE AMERICAN POLITICAL PROCESS

Grades: 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: None

Course Number: Semester A: 603111

OR Semester B: 603112

This course is a survey of the American political process, designed to prepare students for participation as citizens of local, national, and global communities. The course focuses on both the local and the federal government, including topics such as the Constitution and three branches, American public policy over time, and the opportunities and responsibilities of citizenship. The course culminates with an inquiry-based, civic engagement project in which students choose a pathway of participation to exert positive influence in their community. As a part of this course, students will also take the state's Civics Test which meets the Wisconsin Civics Graduation Requirement.

AP EUROPEAN HISTORY

Grades: 11, 12

SDJ Credit: 1.0

Length: Year

Prerequisites: None

Course Number: Semester A: 603241

AND Semester B: 603242

This course is a college-level study of Europe from 1450 to the present. It focuses on cultural, economic, political, and social developments. Students will have the opportunity to take the Advanced Placement exam.

AP HUMAN GEOGRAPHY

Grades: 9, 10, 11, 12

SDJ Credit: 1.0

Length: Year

Prerequisites: None

Course Number: Semester A: 602321

AND Semester B: 602322

AP Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students will learn the impact humans have, not only on the Earth, but also on each other, including the study of world population issues, border disputes, international conflicts, urban development, environmental consequences, and pandemic disease. Students will study culture, economics, world religions, the origins and diffusion of languages, industrialization, rural land use, city planning, and geographic tools. Students will have the opportunity to take the Advanced Placement exam.

AP PSYCHOLOGY

Grades: 11, 12

SDJ Credit: 1.0

Length: Year

Prerequisites: None

Course Number: Semester A: 604421

AND Semester B: 604422

Advanced Placement Psychology is a course that introduces students to the scientific study of behavior and mental processes in humans and animals. Units of study include history, foundations and careers, critical scientific thinking and statistical reasoning, neurobiology, nature, nurture and human diversity, development, sensation and perception, states of consciousness, learning, memory, thinking and language, intelligence, motivation and emotion, theories of personality, psychological disorders and therapy, stress and health, and social psychology. Students will study the entire college curriculum before the Advanced Placement exam in May. The focus of the course is to foster critical thinking and an understanding of human behavior that allows the individual the opportunity to create healthier relationships throughout the lifespan. Students can expect to participate in activities that incorporate community resources and active participation as a means of making direct connections between their studies and relationships. Students will have the opportunity to take the Advanced Placement exam.

AP UNITED STATES HISTORY Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 603221 AND Semester B: 603222	A college-level chronological study of United States history from pre-colonial America to the present. Students will be expected to meet college-level class performance expectations, e.g., extensive reading, writing, class participation, and discussion. Students will have the opportunity to take the Advanced Placement exam.
AP UNITED STATES GOVERNMENT & POLITICS Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 604721 AND Semester B: 604722	This course is designed to prepare students for the Advanced Placement exam in US Government and Politics. The course focuses on the federal government: Congress, Presidency, Judiciary, Bureaucracy, and the constitution and political culture. Students will complete the preparatory work for the Advanced Placement test in US Government & Politics. Students will also complete a research project. As a part of this course, students will also take the state's Civics Test which meets the Wisconsin Civics Graduation Requirement. Students will have the opportunity to take the Advanced Placement exam. As a part of this course, students will also take the state's Civics Test which meets the Wisconsin Civics Graduation Requirement.
AP WORLD HISTORY: MODERN Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 603231 AND Semester B: 603232	The Advanced Placement World History: Modern course is designed to prepare students for the AP World History: Modern Exam. Students will investigate significant events, individuals, developments, and processes in six historical periods from approximately 1200 C.E. to the present. Students will be expected to read college level texts, as well as develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. Students will have the opportunity to take the Advanced Placement exam.
CONTEMPORARY ISSUES <i>Offered at Parker Only</i> Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 604021 OR Semester B: 604022	This course will ask students to examine and investigate major contemporary issues affecting Americans in the 21 st Century. While addressing constitutional foundations and the operations of representative government, current issues along with their political, economic, and social implications will also be stressed. The purpose of the course is to help students become informed voters by improving their knowledge of how the U.S. Government functions as well as current issues.
ECONOMICS Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 601301 OR Semester B: 601302	Economics is the study of how individuals and societies decide to use scarce resources in order to satisfy their unlimited wants. This course, which is geared to the student interested in acquiring a basic understanding of how our economic system works, is beneficial to students interested in business, personal finance, and political decision making. Concepts that are covered include supply and demand relationships, production, consumption, banking, labor, fiscal and monetary policy, and the impact of international trade on world economics. A basic mathematical background is necessary to understand the models utilized in instruction.
HISTORY THROUGH ART I <i>Offered at Parker Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 648121 OR Semester B: 648122	History Through Art I will allow students to study world history from Prehistory to the Middle Ages through the study of the major paintings, sculptures and architecture of those times. Students will participate in discussions/activities comparing and contrasting both Western and non-Western art. Civilizations, religions and political and social events will be studied as related to the emergence of new forms and movements in art. Students have the option to take this class and History Through Art II as prerequisites to AP Art History. <i>This course is also offered under Art.</i> <i>This course counts as elective credit only; it does not count toward required Social Studies credits.</i>

HISTORY THROUGH ART II <i>Offered at Parker Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 648221 OR Semester B: 648222	History Through Art II will allow students to study world history from the Renaissance to the Modern Era through the study of the major paintings, sculptures and architecture of those times. Students will participate in discussions/activities comparing and contrasting both Western and Non-western art. Civilizations, religions and political and social events will be studied as related to the emergence of new forms and movements in art. Students have the option to take this class and History Through Art I as prerequisites to AP Art History. <i>This course is also offered under Arts.</i> <i>This course counts as elective credit only; it does not count toward required Social Studies credits.</i>
HUMANITIES A <i>Offered at Craig Only</i> Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 604821 OR Semester B: 604822	This course will teach the concepts of change, honor, beauty, justice, peace and quality. This course is not a prerequisite for Humanities B. This is a study of people utilizing the ideas of psychology, sociology, anthropology, history, economics, art and literature. Humanities are about life and the human perspective. This course does not utilize a textbook. Concepts are covered in a variety of ways including film, group projects, class discussion, guest speakers and primary source documents.
HUMANITIES B <i>Offered at Craig Only</i> Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 604921 OR Semester B: 604922	This course will teach the concepts of think, truth, power, work, death and love. Humanities B can be taken without having taken Humanities A. This is a study of people utilizing the ideas of psychology, sociology, anthropology, history, economics, art and literature. Humanities are about life and the human perspective. This course does not utilize a textbook. Concepts are covered in a variety of ways including film, group projects, class discussion, guest speakers and primary source documents.
MULTICULTURAL AMERICAN HISTORY Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 603321 OR Semester B: 603322	This course examines the history of minority groups within the United States. Students will become familiar with the background, culture, contributions, and achievements of African Americans, Asian Americans, Hispanics, and Native Americans. Students will also investigate the prejudice and discrimination that each group has endured. They will discover how a minority group's past affects its present and future as well. In addition, students will discuss and debate current topics including ethnic stereotypes, affirmative action, immigration, racial profiling, and hate crimes. Students enrolled in the course will consider issues of historical significance which are relevant to the ever-changing world we live in today.
 TC PSYCHOLOGY Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 604321 OR Semester B: 604322	This course is designed to provide the individual with a survey of the field of psychology and the related areas of experimentation, personality development, mental health, learning, conformity, physiology, coping and adjustment mechanisms. Investigations into social psychology and societal problems will be included. Upon completion of the course, the students will have gained insight into themselves, and will have enhanced their understanding of the complexity of human behavior. <i>Transcripted credit may be offered if the SDJ has a licensed staff member employed to teach this course. This is a college course that will produce a permanent college transcript and grade point average for each student. If you believe that producing a permanent college transcript and grade point is not in your best interest academically at this time, please consider requesting Psychology. If you need more information about Transcripted Credit, see your counselor before requesting courses.</i>
PSYCHOLOGY Grades: 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 601431 OR Semester B: 601432	This course is designed to provide the individual with a survey of the field of psychology and the related areas of experimentation, personality development, mental health, learning, conformity, physiology, coping and adjustment mechanisms. Investigations into social psychology and societal problems will be included. Upon completion of the course, the students will have gained insight into themselves, and will have enhanced their understanding of the complexity of human behavior.

**TC SOCIOLOGY**

Grades: 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: None

Course Number: Semester A: 604521

OR Semester B: 604522

Throughout this course, students will develop a sense of connection to society and how that connection impacts and is impacted by social forces. Students will look for social causes to behavior and the behavior of others such as racial, gender, and age discrimination. Special attention will be given to the sociological institutions of education, government, religion and family as they relate to social development.

Transcripted credit may be offered if the SDJ has a licensed staff member employed to teach this course. This is a college course that will produce a permanent college transcript and grade point average for each student. If you believe that producing a permanent college transcript and grade point is not in your best interest academically at this time, please consider requesting Sociology. If you need more information about Transcripted Credit, see your counselor before requesting courses.

SOCIOLOGY

Grades: 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: None

Course Number: Semester A: 601421

OR Semester B: 601422

Throughout this course, students will develop a sense of connection to society and how that connection impacts and is impacted by social forces. Students will look for social causes to behavior and the behavior of others such as racial, gender, and age discrimination. Special attention will be given to the sociological institutions of education, government, religion and family as they relate to social development.

UNITED STATES HISTORY

Grades: 10, 11, 12

SDJ Credit: 1.0

Length: Year

Prerequisites: None

Course Number: Semester A: 603021

AND Semester B: 603022

This course surveys United States history from the Progressive Era (1900) to the present emphasizing the interconnectedness of events and people. Additional attention is placed on the constitution era and the study of state and local government.

WORLD STUDIES

Grades: 9, 10, 11, 12

SDJ Credit: 1.0

Length: Year

Prerequisites: None

Course Number: Semester A: 602511

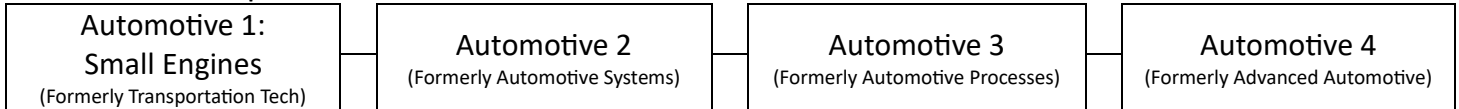
AND Semester B: 602512

Students will understand major themes of modern world history and their impact on our present world. Such an understanding is rooted in an investigation of the geographic, historic, economic, anthropologic, and political elements of the world's diverse regions. Therefore, this course combines aspects of world history with elements of human and physical geography. To build skills for future high school courses, a special emphasis will also be placed on developing the following skills: map analysis, primary & secondary source analysis, and using analysis of evidence to support written claims.

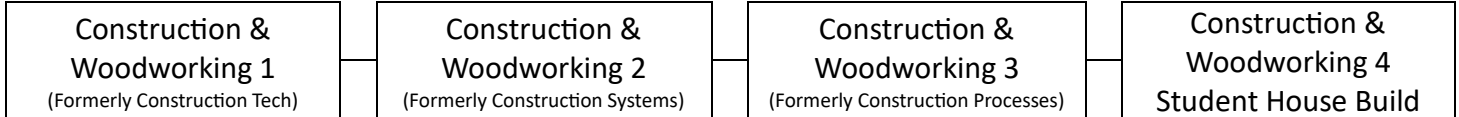
TECHNOLOGY & ENGINEERING

Technology Education courses are not suggested for a particular grade level, and in many cases, multiple courses may be taken in one academic year, however, recommended sequences are listed below.

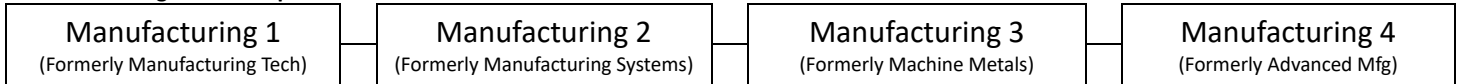
Automotive Course Sequence:



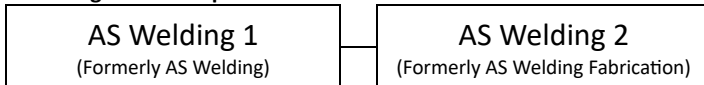
Construction Course Sequence:



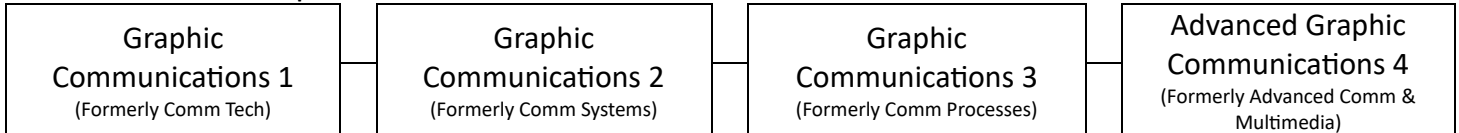
Manufacturing Course Sequence:



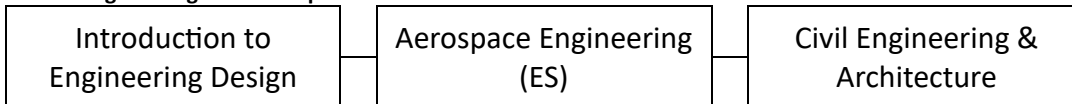
Welding Course Sequence:



Communications Course Sequence:



PLTW Engineering Course Sequence:



AUTOMOTIVE

AUTOMOTIVE 1: SMALL ENGINES

Grades: 9, 10, 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: None

Course Number: Semester A: 785021

OR Semester B: 785022

Students will work on and learn about vehicles and engines used for land, air, and water transportation industries. Students will design, build and operate several different kinds of vehicles, which may include (steam powered boats, mousetrap drag car, boomerangs, etc.) Students will also disassemble, diagnose, repair, and reassemble a small 4-stroke gasoline engine. In this course, students have the opportunity to earn an Industry Recognized Credential from Snap On.

AUTOMOTIVE 2

Grades: 9, 10, 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: Automotive 1 or
Transportation Technology

Course Number: Semester A: 785121

OR Semester B: 785122

This first automotive course focuses on cars. Students will learn about and work on all the systems within the vehicle ignition, fuel, cooling, lubrication, exhaust, brakes, suspension, and wheels and tires. Students will disassemble and reassemble engine components and perform basic service and maintenance checks. Students will also be able to perform many of the hands-on performances on their own vehicles! In this course, students have the opportunity to earn an Industry Recognized Credential from Snap On.

 AS AUTOMOTIVE 3 Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Automotive Systems Course Number: Semester A: 785221 AND Semester B: 785222	This course will expand on previous areas of instruction in the automotive field. It is the second course that deals entirely with the automobile. Students will learn and perform services that deal with engine processes, electrical systems, suspension systems, brake systems, axles and transmissions, and intro auto body. In this course, students have the opportunity to earn an Industry Recognized Credential from Snap On.
 AS AUTOMOTIVE 4 Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Automotive Processes Course Number: Semester A: 785321 AND Semester B: 785322	This course focuses on the detailed operation and service of the following automotive systems: total electrical system, emissions, engine diagnosis, mechanical repair, steering and suspension, brakes and drive train. Students will also experience and build skills in the auto body field, including prep –bondo (mudding) to paint. Note: A contract project is required (4-9weeks) as a part of the class. It is signed by a student/teacher and must be completed to obtain a grade. Students will work on advanced Tech. Ed. projects within the chosen medium area. A special course of study will be developed by the instructor to meet the student's needs in the development of the Tech. Ed. area s/he has chosen. In this course, students have the opportunity to earn an Industry Recognized Credential from Snap On. <i>This course option may be repeated for additional credits.</i>

CONSTRUCTION

CONSTRUCTION & WOODWORKING 1 Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 783021 OR Semester B: 783022	This course provides students with a general introduction to construction and woodworking. This course is basic and exploratory in nature. It involves a hands-on approach to learning. Students will operate hand and power tools used in the construction and woodworking industries. Students will construct products dealing with architecture, residential construction, woodworking, and mass production, as well as an introduction to CNC machinery. In this course, students have the opportunity to earn an Industry-Recognized Credential from Snap-on.
CONSTRUCTION & WOODWORKING 2 Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Construction & Woodworking I or Construction Technology Course Number: Semester A: 783121 OR Semester B: 783122	In this course, students will continue learning new woodworking techniques and skills in addition to the fundamentals of residential house construction. Students will take part in a mass production project that they complete with their class. Students will create projects reinforcing the skills learned in Construction & Woodworking 1.
CONSTRUCTION & WOODWORKING 3 Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Construction Systems Course Number: Semester A: 783221 AND Semester B: 783222	A yearlong course which consists of an in-depth study in the areas of woodworking, carpentry and architecture. Group and individual work activities may consist of material estimating, floor plan design, framing techniques, interior and exterior material application, energy conservation techniques, and career opportunities. Students will design a project which will include a bill of materials and a plan. Students will complete projects utilizing the construction techniques learned in class.
CONSTRUCTION & WOODWORKING 4: STUDENT HOUSE BUILD Grades: 11, 12 SDJ Credit: 3.0 Length: Year Prerequisites: Teacher recommendation. Preference given to students who have completed Construction Tech, Construction Systems, and Construction Processes Course Number: Semester A: 783321 AND Semester B: 783322	This course combines classroom instruction with practical application in a residential home construction project. Students will be "on-site" completing the construction of a home through a partnership with the South-Central Wisconsin Builders Association and the School District of Janesville. Students will learn concrete, framing, insulation techniques, energy saving procedures, green building techniques, electrical, interior and exterior finishes and will be involved with every aspect of a home construction project. Students will have opportunities to work side by side with professionals in the building trades in a "hands on" setting. Upon completion of the house, it will be put on the market and sold. Students will be required to transport themselves to and from the jobsite daily. Students will be allowed to repeat this previously taken higher level course. The student will work on advanced Tech. Ed. projects within the chosen medium area. A special course of study will be developed by the instructor to meet the student's needs in the development of the Tech. Ed. area s/he has chosen. <i>This course option may be repeated for additional credits.</i>

THEATER DESIGN & CONSTRUCTION <i>Offered at Craig Only</i> Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester A Only Prerequisites: None Course Number: Semester A: 783521	Theater Design and Construction will expose students to set design and construction as well as theatrical lighting and sound in this hands-on class. Students will be making the sets and props for the current musical/theatrical productions as well as working with sounds and lighting for the shows. This course may be taken multiple academic years for credit. <i>This course is also offered under Music.</i>
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MANUFACTURING & WELDING

MANUFACTURING 1 Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: None Course Number: Semester A: 784021 OR Semester B: 784022	This class provides students with a general introduction to material processing of manufactured goods and products. Students will work with hand tools and operate basic machine tools used in the machining industry. Students will also learn to use precision measurement tools, hand tools, and operate machine tools. Students will gain experience with mig welding, and sheet metal development in this course. Students will construct several projects using blueprints and a combination of hand and machine tools.
MANUFACTURING 2 Grades: 9, 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Manufacturing 1 or Manufacturing Technology Course Number: Semester A: 784121 OR Semester B: 784122	Students will build goods and products from raw materials. Students will read blueprints and use precision measurement tools to accurately form the materials needed to create a finished good or product. Students will work with hand tools, understand decimal equivalents and tap and die charts and will apply themselves to machining of metal, welding, and sheet metal.
MANUFACTURING 3 Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Manufacturing 2 or Manufacturing Systems Course Number: Semester A: 784221 OR Semester B: 784222	Manufacturing 3 covers the procedures involved in converting metal stock into a variety of shapes and sizes. These procedures include the use of metal lathes, milling machines, and drilling to specification on a blueprint. Students will be introduced to the functions of a CNC machine. The students can then assemble the parts produced into a useful product.
MANUFACTURING 4 Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Machine Metals or Welding Fabrication Course Number: Semester A: 784521 AND Semester B: 784522	Students will plan, design and develop independent projects using the entire lab and instructional resources. This course is geared to meet the needs of the individual student. Students are required to develop advanced skills in machine operation and welding to solve more difficult problems while working to meet industry standards. Advanced projects will be made using multiple machines in the manufacturing lab. These machines could include: Lathes, Milling Machines, Computer Numerical Control (CNC) machines and Welders. The students can then assemble the parts produced into a useful product. The student will work on advanced Tech. Ed. projects within the chosen medium area. A special course of study will be developed by the instructor to meet the student's needs in the development of the Tech. Ed. area s/he has chosen. <i>This course option may be repeated for additional credits.</i>
 AS WELDING I Grades: 10, 11, 12 SDJ Credit: 0.5 Length: Semester Prerequisites: Manufacturing 2 or Manufacturing Systems Course Number: Semester A: 784321 OR Semester B: 784322	This course is an introduction that provides a foundation of hands on learning by applying knowledge related to the welding process. Welding is an efficient, dependable, flexible, and economical means of fabrication. Students will study the principles and practices of SMAW, GTAW, GMAW, Oxyacetylene cutting operations, and Plasma Arc Cutting. This will be achieved through lecture, demonstrations, and in lab practice. Students who successfully complete this course are eligible to receive credit for Intro to Welding and Welding Shop Safety upon enrollment at Blackhawk Technical College.

**AS WELDING II**

Grades: 10, 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: Welding 1

Course Number: Semester A: 784421

OR Semester B: 784422

Students will continue their exploration and skill building through activities that involve welding processes from the first level course. Students will learn welding math, interpret drawings, sketches and welding symbols. Students will participate in a mass production welding project, which will further acquaint them with different machines in the shop. Students will then make their own independent project (with Instructors permission for safety purposes). Students who successfully complete this course are eligible to receive credit for Welding Blueprint Reading I upon enrollment at Blackhawk Technical College.

COMMUNICATIONS

GRAPHIC COMMUNICATIONS 1*Offered at Craig Only*

Grades: 9, 10, 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: None

Course Number: Semester A: 781021

OR Semester B: 781022

Communication Technology is the first class in a series of communication courses that focus on graphic arts. This course is basic and exploratory in nature. It involves a hands-on approach to learning with most of the class time spent on problem solving activities. Students will work to develop an individualized portfolio involving the following areas: design and layout - computer graphics, desktop publishing, photography, audio/video production, screen-printing, and lasers. Software that may be used could include Adobe: Photoshop, InDesign, Illustrator, and Google products.

GRAPHIC COMMUNICATIONS 2*Offered at Craig Only*

Grades: 9, 10, 11, 12

SDJ Credit: 0.5

Length: Semester

Prerequisites: Graphic Communications 1 or
Communications Technology

Course Number: Semester A: 781221

OR Semester B: 781222

Students participate in learning activities that focus on audio and visual communication systems. Emphasis is on problem solving and practical application of graphic art and electronic communication principles. Students will expand their knowledge of technology by producing in-depth work related to video and audio production, graphic design, desktop publishing, problem solving, photography, digital scanning, and animation.

GRAPHIC COMMUNICATIONS 3*Offered at Craig Only*

Grades: 10, 11, 12

SDJ Credit: 1.0

Length: Year

Prerequisites: None

Course Number: Semester A: 781421

AND Semester B: 781422

This is a yearlong course which consists of in-depth study of the areas in Graphic and Electronic Communications. The students will have a series of projects and activities assigned with some being created for others outside of the classroom. The length of time and depth of the students' projects will be determined by the complexity of each assignment. Students will expand their knowledge and skill set using many different sources and software applications to complete the assignments. Some of the examples are Adobe products (Photoshop, InDesign, Illustrator, etc.), Google products, and Microsoft products. Individual choice projects will also be included as the year progresses. The students will determine what many of the choice project topics and final designs end up being.

**ADVANCED GRAPHIC COMMUNICATIONS
4***Offered at Craig Only*

Grades: 11, 12

SDJ Credit: 1.0

Length: Year

Prerequisites: Graphic & Electronic
Communication Processes

Course Number: Semester A: 781321

AND Semester B: 781322

This course is in-depth individual study in the areas of Graphic Arts and Electronic Communication. This course is designed to assist students that have an interest in or are pursuing a career in the Graphic Arts or Electronic Communications field. Each student and the instructor discuss and decide which avenues the student will follow for the year. Each student's plan will be individually based to best assist them after graduation. The areas of study can be with any of the available technology in the class. The length of time and final outcome of each student's topic will be decided jointly by the student and instructor. Students will be allowed to repeat this previously taken higher level course. The student will work on advanced Tech. Ed. projects within the chosen medium area. A special course of study will be developed by the instructor to meet the student's needs in the development of the Tech. Ed. area s/he has chosen. *This course option may be repeated for additional credits.*

ENGINEERING

 AEROSPACE ENGINEERING (ES) Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Alternate Year at Parker: Offered 2024-2025 Prerequisites: Geometry Course Number: Semester A: 782121 AND Semester B: 782122	The major focus of the Aerospace Engineering course is to expose students to the world of aeronautics, flight and engineering. Students will be introduced to the Project Lead the Way activity-based, project-based, and problem-based learning through exploring the world of aerospace engineering. Students should have experience in physics, mathematics and technology education. They will employ engineering and scientific concepts in the solution of aerospace problems. <i>This course is also offered under Science.</i>
 CIVIL ENGINEERING & ARCHITECTURE Offered at Craig Only Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Introduction to Engineering Design and Geometry Course Number: Semester A: 782131 AND Semester B: 782132	The major focus of this course is completing long-term projects that involve the development of property sites. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of a property. The course provides teachers and students freedom to develop the property as a simulation or to students to model the experiences that civil engineers and architects face. Students work in teams, exploring hands-on activities and projects to learn the characteristics of civil engineering and architecture. In addition, students use 3D design software to help them design solutions to solve major course projects. Students learn about documenting their project, solving problems, and communicating their solutions to their peers and members of the professional community of civil engineering and architecture.
 COMPUTER INTEGRATED MANUFACTURING Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Introduction to Engineering Design Course Number: Semester A: 784131 AND Semester B: 784132	Manufactured items are part of everyday life, and in this course, students will be introduced to the high-tech, innovative nature of modern manufacturing. At the same time, students will learn about the manufacturing process, product design, robotics, and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge System.
 DIGITAL ELECTRONICS (EM) Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Introduction to Engineering Design and Algebra I Course Number: Semester A: 782221 AND Semester B: 782222	Digital Electronics introduces students to the fundamentals and applications of digital electronics, programmable logic controls, and the application of electronic circuits and devices. Students will design and test digital circuitry through a blend of hands-on and academic activities. <i>This course is also offered under Mathematics.</i>
 ENGINEERING DESIGN & DEVELOPMENT Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Introduction to Engineering Design, Principles of Engineering, and one other PLTW Engineering Course Course Number: Semester A: 782031 AND Semester B: 782032	The knowledge and skills students acquire throughout PLTW Engineering courses come together in Engineering Design & Development as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing Engineering Design & Development ready to take on a post-secondary program or career.

 INTRODUCTION TO ENGINEERING DESIGN Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 782021 AND Semester B: 782022	This course is designed to introduce students to the design process and the tools used in product development. Students enrolled in Introduction to Engineering Design will learn through first-hand experience the activities that engineers engage in throughout the design cycle. Development of design briefs, sketching, 3D solid modeling and prototyping will provide the foundation for activities in Introduction to Engineering Design.
 PRINCIPLES OF ENGINEERING (ES) Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Alternate Year at Parker: Offered 2025-2026 Prerequisites: Introduction to Engineering Design Course Number: Semester A: 581621 AND Semester B: 581622	Are you interested in applying your math and science skills through a mix of hands-on and academic activities? Principles of Engineering is a course designed to introduce students to the fundamental skill sets necessary to be a successful engineer. Using technology to design experiments, students will fabricate products which meet specific industry requirements. Students may also participate in case studies and team projects. <i>This course is also offered under Science.</i>

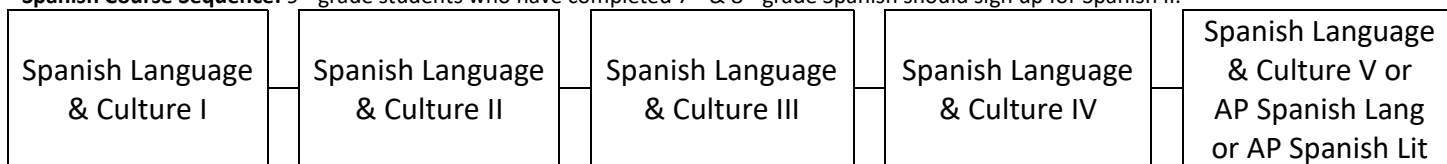
INDUSTRIAL CO-OP

INDUSTRIAL CO-OP EDUCATION: CLASSROOM <i>Offered at Parker Only</i> Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Two courses in Technology Education and Instructor Consent. Application and Interview required. Course Number: Semester A: 787121 AND Semester B: 787122	The I.C.E. classroom phase is a course intended to go hand in hand with the I.C.E. work phase of the program. The classroom phase deals with all aspects of the world of work students will someday encounter. In the classroom, students will learn: job seeking skills, employer/co-worker relations, ways to obtain job promotions, how to research various careers, and other important aspects of how to get a job, keep it, and become successful in a career.
INDUSTRIAL CO-OP EDUCATION: JOB SITE <i>Offered at Parker Only</i> Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Concurrent enrollment in I.C.E. Classroom and Instructor Consent. Application required. Course Number: Semester A: 787221 AND Semester B: 787222	In this course, the student works in a job related to his/her career objective. The student is trained and evaluated by the employer. Students receive one credit for work experience. Students signing up for Industrial COOP work must also sign up for the I.C.E. classroom phase. Students will be released early from school each day for on-the-job training, and work at their selected job site approximately 15-20 hours per week <i>COOP requirements include: weekly work logs and quarterly employer completed evaluations.</i>

WORLD LANGUAGE

World Language courses are not suggested for a particular grade level.
It should be noted that some students may enter high school language courses beyond Level 1.
Recommended sequences are listed below. See your language teacher for a recommendation.

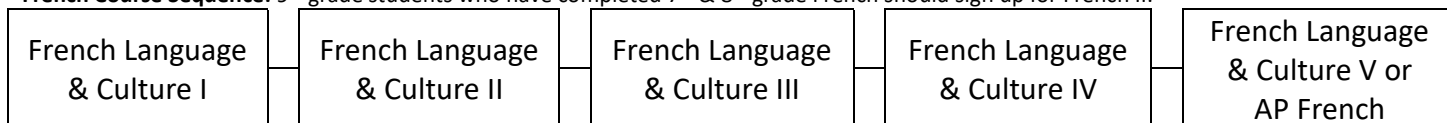
Spanish Course Sequence: 9th grade students who have completed 7th & 8th grade Spanish should sign up for Spanish II.



Spanish for Heritage Speakers Sequence: Heritage speakers wishing to enroll in the sequence above should begin with Spanish III.



French Course Sequence: 9th grade students who have completed 7th & 8th grade French should sign up for French II.



AP FRENCH LANGUAGE & CULTURE Grades: 12 SDJ Credit: 1.0 Length: Year Prerequisites: French Language & Culture IV Course Number: Semester A: 741721 AND Semester B: 741722	The AP French Language and Culture course emphasizes communication by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. To best facilitate the study of language and culture, the course is taught almost exclusively in French. The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). Students will have the opportunity to take the Advanced Placement exam.
AP SPANISH LANGUAGE & CULTURE Grades: 12 SDJ Credit: 1.0 Length: Year Prerequisites: Spanish Language & Culture IV, V, or AP Spanish Literature & Culture Course Number: Semester A: 742921 AND Semester B: 742922	The AP Spanish Language and Culture course is a rigorous course that is taught predominantly in Spanish and approximately equivalent to a 5th or 6th semester university course. The course requires students to improve their proficiency across the three modes of communication (interpretive, interpersonal, and presentational). The course focuses on the integration of authentic resources including online print, audio, and audiovisual resources, as well as traditional print resources that include literature, essays, and magazine and newspaper articles with the goal of providing a rich, diverse learning experience. Students communicate using advanced vocabulary and linguistic structures as they build proficiency in all modes of communication. Students will have the opportunity to take the Advanced Placement exam.
AP SPANISH LITERATURE & CULTURE Grades: 12 SDJ Credit: 1.0 Length: Year Prerequisites: Spanish Language & Culture IV, V, or AP Spanish Language & Culture Course Number: Semester A: 742931 AND Semester B: 742932	The AP Spanish Literature and Culture course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, plays, and essays) from Peninsular Spanish, Latin American, and U. S. Hispanic literature. Students develop proficiencies across the three modes of communication (interpretive, interpersonal, and presentational) in the range of Intermediate High to Advance Mid of the American Council on the Teaching of Foreign Languages' (ACTFL) Proficiency Guidelines. Through careful examination of the required readings and other texts, students work to hone their critical reading and analytical writing skills. Literature is explored within the contexts of its time and place, and students gain insights on the many voices, historical periods, and cultures represented in the required readings and other texts. The course also includes a strong focus on cultural, artistic, and linguistic connections and comparisons, which is supported by the exploration of various media (art, music, film, articles, and literary criticism).

FRENCH LANGUAGE & CULTURE I Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 741121 AND Semester B: 741122	In French I, students use culture to express themselves on a variety of topics in French. Authentic cultural resources will be used to introduce and practice reading, writing, listening, and speaking at a novice level (memorized words and phrases and simple sentences). Some topics include everyday life, school, pastimes, and people. Music, film, literature, francophone celebrations and online media platforms are used to encourage communication.
FRENCH LANGUAGE & CULTURE II Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: French Language & Culture I Course Number: Semester A: 741221 AND Semester B: 741222	French II expands on French I themes making comparisons between students' own lives and the lives of adolescents from francophone countries. There is an emphasis on fashion, food, family life and their communities. Students are immersed in francophone culture through authentic cultural resources. They will begin transitioning from novice to intermediate language (naturally adding detail to simple sentences). Music, film, literature, francophone celebrations and online media platforms continue to be used to encourage communication. Students who have completed 7th and 8th grade French should sign up for French II.
FRENCH LANGUAGE & CULTURE III Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: French Language & Culture II Course Number: Semester A: 741321 AND Semester B: 741322	This intermediate level French course continues to develop students' communication skills and cultural competency through four main themes: la routine quotidienne, les grandes vacances, l'art de la francophonie, and l'histoire de la moyenne age. These themes help move students toward more authentic communication with native speakers. Music, film, literature, authentic celebrations, and online media platforms continue to be used to encourage communication.
FRENCH LANGUAGE & CULTURE IV - HONORS Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: French Language & Culture III Course Number: Semester A: 741421 AND Semester B: 741422	This intermediate level French course continues to develop students' communication skills and cultural competency through the themes of la santé and l'environnement. These themes help move students toward more authentic communication with native speakers. Students explore themes in French literature with the novel Le Petit Prince. Music, film, literature, authentic celebrations, and online media platforms continue to be used to encourage communication. Students can choose to continue to French V - Honors or AP French. Students attending a university may be eligible for retroactive credits based upon demonstrated proficiency in the language.
FRENCH LANGUAGE & CULTURE V - HONORS Grades: 12 SDJ Credit: 1.0 Length: Year Prerequisites: French Language & Culture IV Course Number: Semester A: 741521 AND Semester B: 741522	This course explores France and francophone influence in the world. French V is supplemented by authentic francophone music, film, literature, celebrations, and online media platforms that encourage communication. This course also expands on some earlier themes, including everyday life in the French-speaking world. This class will meet the needs of students who plan to use French for travel, career opportunities and further study. Students attending a university may be eligible for retroactive credits based upon demonstrated proficiency in the language.
SPANISH LANGUAGE & CULTURE I Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: None Course Number: Semester A: 742121 AND Semester B: 742122	In Spanish I, students use culture to express themselves on a variety of topics in Spanish. Authentic cultural resources will be used to introduce and practice reading, writing, listening, and speaking at a novice level (memorized words and phrases and simple sentences). The four themes are: Identities, School life, My family is your family, Food is culture. Music, film, literature, Spanish celebrations, and online media platforms are used to encourage communication.
SPANISH LANGUAGE & CULTURE II Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Spanish Language & Culture I Course Number: Semester A: 742221 AND Semester B: 742222	Spanish II expands on Spanish I themes making comparisons between students' own lives and the lives of adolescents from Spanish-speaking countries. There is an emphasis on fashion, food, family life and their communities. Students are immersed in culture through authentic cultural resources. They will begin transitioning from novice to intermediate language (naturally adding detail to simple sentences). Music, film, literature, Spanish celebrations and online media platforms continue to be used to encourage communication. Students who have completed 7th and 8th grade Spanish should sign up for Spanish II.

SPANISH LANGUAGE & CULTURE III Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Spanish Language & Culture II Course Number: Semester A: 742321 AND Semester B: 742322	This intermediate level Spanish course continues to develop students' communication skills and cultural competency through a thematic curriculum that includes learning about the Spanish-speaking world through communities, food, social life and travel. These themes help move students toward more authentic communication with native speakers. Music, film, literature, authentic celebrations, and online media platforms continue to be used to encourage communication.
SPANISH LANGUAGE & CULTURE IV - HONORS Grades: 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Spanish Language & Culture III Course Number: Semester A: 742421 AND Semester B: 742422	This intermediate level Spanish course continues to develop students' communication skills and cultural competency through a thematic curriculum that focuses on self expression, technology and living and maintaining a healthy lifestyle. These themes help move students toward more authentic communication with native speakers. Music, film, literature, authentic celebrations, and online media platforms continue to be used to encourage communication. Students can choose to continue to Spanish V Language and Culture - Honors, AP Spanish Language and/or AP Spanish Literature. Students attending a university may be eligible for retroactive credits based upon demonstrated proficiency in the language.
SPANISH LANGUAGE & CULTURE V - HONORS Grades: 12 SDJ Credit: 1.0 Length: Year Prerequisites: Spanish Language & Culture IV Course Number: Semester A: 742521 AND Semester B: 742522	This course explores Spanish influence in the world through a thematic curriculum that includes current events, art, global citizenship, health and technology. Spanish V is supplemented by authentic Spanish music, film, literature, celebrations, and online media platforms that encourage communication. This course also expands on some earlier themes, including everyday life in the Spanish-speaking world. This class will meet the needs of students who plan to use Spanish for travel, career opportunities and further study. Students attending a university may be eligible for retroactive credits based upon demonstrated proficiency in the language.
SPANISH FOR HERITAGE SPEAKERS I Grades: 9, 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Spanish is spoken in the student's home. Student speaks Spanish fluently, in addition to reading and writing basic Spanish. Course Number: Semester A: 742621 AND Semester B: 742622	This honors course for Heritage learners offers highly differentiated instruction to develop reading, writing, listening and speaking skills through the lens of interculturality. Students strengthen communication skills and cultural competency through four main themes: Un mundo hecho por comunidades, En la cocina de mi abuela, La vida social, Un viaje al extranjero. Music, film, literature, authentic celebrations, and online media platforms are used to develop competencies. Students will conference with the teacher to decide which higher level course is best to advance to the following year.
SPANISH FOR HERITAGE SPEAKERS II - HONORS Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Spanish for Heritage Speakers I Course Number: Semester A: 742721 AND Semester B: 742722	This honors course for second year Heritage learners offers highly differentiated instruction to further development in reading, writing, listening and speaking skills through the lens of interculturality. Students strengthen communication skills and cultural competency through five main themes: Los jóvenes de hoy, #Ciudadanía digital, Una vida sana y equilibrada, Una comunidad sostenible, El mundo laboral. Students will conference with the teacher to decide which higher level course is best to advance to the following year. These include Spanish IV Honors Language and Culture, , Spanish V Honors Language and Culture, AP Spanish Language and Culture and AP Spanish Literature and Culture.
SPANISH FOR HERITAGE SPEAKERS III - HONORS <i>Offered at Parker Only</i> Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Spanish for Heritage Speakers II Course Number: Semester A: 742821 AND Semester B: 742822	This honors course for third year Heritage learners offers highly differentiated instruction to further development in reading, writing, listening and speaking skills through the lens of interculturality. Students strengthen communication skills and cultural competency through important themes that are important to them. Students will conference with the teacher to decide which higher level course is best to advance to the following year. These include Spanish IV Honors Language and Culture, Spanish V Honors Language and Culture, AP Spanish Language and Culture and AP Spanish Literature and Culture.

SPANISH FOR HERITAGE SPEAKERS IV <i>Offered at Parker Only</i> Grades: 10, 11, 12 SDJ Credit: 1.0 Length: Year Prerequisites: Spanish for Heritage Speakers III Course Number: Semester A: 742921 AND Semester B: 742922	This honors-level course for advanced Heritage Speakers of Spanish delves deeper into the complexities of the language and culture. Building upon the strong foundation established in previous levels, this course fosters critical thinking, intercultural competence, and advanced communication skills. Students will demonstrate advanced proficiency in reading, writing, listening, and speaking Spanish. Students will develop a deeper understanding of the diverse cultures and societies of the Spanish-speaking world. Students will enhance their intercultural communication skills and navigate cross-cultural interactions effectively. Students will conduct independent research and present findings effectively in Spanish. Students will develop critical thinking and problem-solving skills through engaging in complex discussions and completing challenging assignments.
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APPENDICIES

Course Correlation Table – Coming Soon!

Global Scholar Application and Tracking Forms

TC Withdrawal Form

Global Scholar Application Student Information

This row generates the naming protocol you need to use to name your Google folder.	First Name	Last Name	Graduation Year
Phone number(s) to contact you about your application, if needed			
Preferred email to receive questions and/or notifications about your application.			
Please list all School District of Janesville schools you have attended in Grades 9-12. Underline the one you will be graduating from, if there is more than one for Grade 12.	Grade 9 school(s):	Grade 10 school(s):	
	Grade 11 school(s):	Grade 12 school(s):	
If there has been a staff member/teacher assisting you with your application, please provide their name.			

GLOBAL COURSEWORK PLANNER/TRACKER

Note to students: new courses are added each year. If you would like to count a course that is not listed, please consult the Global Scholars advisor at your school. Courses may be counted from multiple schools attended in Grades 9-12.

World Language Coursework —Required 4.0 credits in one language OR evidence of language proficiency at or above Intermediate High on the ACTFL scale.	
Native Language:	Language of Coursework:
Approved World Language courses include: French I, French II, French III, French IV Honors, French V Honors, AP French, Spanish I, Spanish II, Spanish III, Spanish IV Honors, Spanish V Honors, AP Spanish Language, AP Spanish Literature, Spanish for Heritage Speakers I, Spanish for Heritage Speakers II, Chinese I, Chinese II, Chinese III, Chinese IV Honors, Chinese V Honors, AP Chinese.	
For students wishing to demonstrate language proficiency in lieu of the credits, students must notify a Global Scholars Advisor by January 31 of their senior year, so that assessment arrangements can be made.	
1.	
2.	
3.	
4.	

Additional Coursework —Required 4.0 credits	
Approved courses include: Social Studies: World Civilizations (1.0), AP World History: Modern (1.0), AP European History (1.0), Global Studies/Honors (1.0), AP Human Geography (1.0), Multicultural American History (.5), Humanities A(.5) & B(.5) (Craig Only); Economics. Business: International Business (.5), ELEVATE: Global Business (1.0, CHS Only) Fine & Culinary Arts: History Through Art I (.5, PHS Only), History Through Art II (.5, PHS Only), Global Foods (.5) Science: AP Environmental Science (1.0), Earth Science I (.5) and II (.5) English: English 10/English 10 Honors (1.0), Accelerated English 9/10 (.5), Diverse Contemporary Lit (.5), AP Literature (.5), AP Language (.5), Social Justice: The Power of Choice and Voice (1.0) Other: International Seminar (.5 or 1.0), Introduction to Music Theory / Music History (0.5) , AP Research (.5) & AP Seminar (.5 - with selection of a global topic) Add more rows if needed to accommodate .5 credit courses.	
Courses	Credits Earned
1.	
2.	
3.	
4.	

GLOBAL LEARNING CO- and EXTRA-CURRICULAR ACTIVITIES PLANNER/TRACKER

In addition to documenting four or more activities, students must submit one reflection documenting what they have learned collectively through these experiences and how they will use that learning to make an impact.

Approved Activities (not all activities are offered at all schools): Interact Club, French Club, French Honor Society, Spanish Club, Spanish Honor Society, Russian Club, Sierra Club, American Sign Language (ASL) Club, Human Relations, Japanese Club, International Buddies, Chinese Club, Chinese National Honor Society, LULAC, World Language Fair, Anime Club, Origami Club, Culture Club/Human Relations Club, the Wisconsin Global Youth Summit, BRO/SIS, international travel (school sponsored; other trips may be approved with an additional reflection--see your Global Scholars Advisor), hosting an international guest, and serving as global ambassador for an international guest.	Advisor Signature
Activities Which May Be Approved Based on Evidence of Global Content: Honor Society, Science Honor Society, Quill & Scroll, Debate, Teen Book Club, Leo Club, Cougar News, the Alliance/GSA	
1.	
2.	
3.	
4.	

Add additional rows as needed.

GLOBAL SERVICE LEARNING PROJECT PLANNER/TRACKER

You will complete a 20 hour service learning project that must be tied to one of the [UN's Sustainable Development Goals](#). In addition to documenting activities, students must submit one reflection documenting what they have learned about the global issue and how they made an impact. Think global, act local!

Global Issue Topic of Focus:				
Global Service Hours—Minimum of 20 Hours Required				
Date	Service Activity	Related Organization* <i>(if applicable)</i>	Hours	Adult Signature

Add additional rows as needed.

REFLECTIONS PLANNER

Reflections on Books, Art, Music, and/or Film—8 Required including at least 4 Books and 1 Film

Title of Work	Type of Work (<i>book, art, music, film</i>)	Reflection Method (<i>written, presentation, other</i>)
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		



6004 S County Rd G • P.O. Box 5009 • Janesville, WI 53547-5009
(608) 757-7660 • registration@blackhawk.edu • blackhawk.edu

Transcripted Credit Course Withdrawal Form

PERSONAL INFORMATION

Student Name		BTC Student ID Number	
High School	City	State	Zip Code

COURSE(S) TO WITHDRAW FROM:

CRN	Course Name	

Student Signature		Date
Instructor Signature		Date
Parent/Guardian Signature		Date