

Zion-Benton Township High School

COURSE GUIDE

2022 - 2023



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PURPOSE

The purpose of the *Course Guide* is to provide information important for choosing an appropriate course sequence and selecting courses needed to achieve educational and career goals.



Note: The *Course Guide* is approved annually by the District 126 Board of Education.

ZION-BENTON TOWNSHIP HIGH SCHOOL

Vision: Empower students to thrive in today's global society

Empower
Students, Families,
Staff, & Communities



EMPOWERMENT

Enhance
Achievement & Eliminate
the Opportunity Gap



EQUITY

Ensure
Effective & Efficient
Operations



EXCELLENCE

Core Beliefs

- A safe and supportive learning environment that leads to self-confidence and social responsibility for all members of the school community.
- Intentional implementation of equitable policies, processes, and practices to ensure students succeed academically, socially, and civically.
- Effective, efficient, and sustainable fiscal practices to maximize learning and working opportunities for students, faculty, and staff in partnership with the community.

Guiding Principles

- To promote creativity and adaptability to new ideas that support and improve student learning.
- To foster an environment that seeks to eliminate the opportunity and achievement gaps.
- To pursue the highest standards of achievement where all learners will be supported with intervention, enrichment, and acceleration opportunities

Mission: To promote self-worth, social responsibility and life-long learning in partnership with our community

INTRODUCTION

A NOTE ABOUT COURSE OFFERINGS

Regular education classes at Zion-Benton Township High School are offered through 12 Departments divided among six Divisions. While each class presents students with unique content, all are intended to produce high school graduates with the skills necessary for success in college and a professional career.

English, Mathematics, Science, and Social Science classes are also presented in multiple levels, which incorporate varying degrees of complexity and sophistication. A student's initial placement is primarily determined based on an analysis of multiple measures from eighth grade. Classes at the Regular level focus on mastery of the skills necessary for rigorous academic work while Honors level classes challenge students to apply advanced skills toward increasingly intricate tasks. Regardless of their level, all students in a course will encounter the same content. This commitment to a common curriculum allows high-achieving freshmen to transition to more demanding levels in later years without encountering gaps in their content knowledge.

Education is a collaborative effort involving the contributions of students, families, teachers, support staff, administrators, and the community as a whole. It is our hope that the selection of courses will be a process in which attention is given to each student's academic potential and plans for the future. Throughout their time at ZBTHS, students will play an increasingly important role in selecting their courses of study; the awareness that decisions in high school have enduring consequences is a powerful lesson for adolescents. Student placement is a vital process in the implementation of Zion-Benton Township High School's mission:

“To promote self-worth, social responsibility, and lifelong learning in partnership with our community.”

Superintendent

Dr. Jesse Rodriguez

Executive Director of Student Services

Mr. Jacob Carlson

Executive Director of Special Services

Dr. Susan Barker

Executive Director of Teaching & Learning

Dr. Melissa DiGangi

Director of Equity and Engagement

Ms. Michelle Hassan

Principal

Dr. Chris Pawelczyk

Assistant Principal

Mr. Zackary Livingston

ZBTHS Department Heads

Mr. Michael Blades

Dr. Jasey Kolarik

Ms. Jennifer Lang

Dr. Nicole Stommel

Mr. Andrew Stout

Ms. Emily Waddick

Mr. Michael Wollney

Graduation Requirements

To be eligible for a diploma from this high school, a student must have completed eight semesters of high school attendance with the final semester as a full-time student at Zion-Benton Township High School.

Curriculum Area	Carnegie Units Required 2023	Carnegie Units Required 2024	Carnegie Units Required 2025 & 2026
English	4.00	4.00	4.0
Mathematics	3.00	3.00	3.00
Science (1 year of a lab science)	2.50	2.50	3.00
Social Science (1 year of U.S. History, 1 semester of Government)	2.5	3.00	3.00
Physical Education	3.00	3.00	3.00
Health	0.50	0.50	0.50
Personal Finance (Consumer Education)	0.50	0.50	0.50
Electives	4.00	4.00	4.50
Senior Year Core Electives	1.00	1.00	1.00
Total Required Credits	21	21.5	22.5

Definition of a Carnegie Unit:

A unit of credit is given for a successfully completed 36-week full-credit course or two 18-week courses meeting one period each day, five days weekly. Summer School and Before/After School credit recovery courses earn a semester of credit of 0.50 except for Driver Education, which is 0.25 credit.

Important Information Regarding Graduation Requirements

- 1.) Students must pass the Constitution test to be eligible for graduation. This test will be offered in the senior year Government course.
- 2.) If a student fails a course required for graduation, he/she must make up that credit through one of the following options:
 - a.) Before or After School
 - b.) Summer School
 - c.) Correspondence Courses
- 3.) A pass/fail option is available for some courses. Students should see their counselor if they wish to explore this avenue.
- 4.) The PE requirement can be met by enrolling in NJROTC or Marching Band or by participating in Grades 10, 11, or 12 athletics. See your counselor for details. If an exemption is granted, the course must be replaced with another credit.

Class Load

For all four years all students must request a schedule of **six** courses including Physical Education. A study hall can be added to a student's schedule. Music and NJROTC courses may be taken as either part of the normal load or as an extra subject.

Students must obtain special permission to carry less than the normal number of subjects. Students electing two or more Advanced Placement courses are encouraged to carry only four academic courses. It is suggested they have at least one scheduled study hall.

Students may petition to carry an additional course(s). Enrollment will be granted on a space available basis only.

College/Post-Secondary School Admission Guidelines

These guidelines provide direction in planning for college and/or post high school instruction and career decisions. Students must select courses and electives that will help them meet the entrance requirements of the college or post-secondary school of their choice. Not all schools and colleges have the same admissions requirements. Parents, counselors, and advisors must work jointly with students to help them choose the proper courses to achieve their desired goals for entrance to the institution of their choice and their career objectives.

Colleges generally have the following admission requirements:

English: 4 years

Mathematics: 3-4 years

Science: 3 years

Social Science: 3 years

World Language: 2 years

However, it is important to consult the college/university you plan to attend for requirements specific to that institution. Please see the College Counselor at ZBTHS with any questions or concerns regarding admission guidelines.

NCAA Requirements

Students who plan to practice and play their freshman year at an NCAA Division I or Division II College must satisfy the requirements of NCAA Bylaw 14.3, commonly known as Proposition 48. Courses approved by the NCAA are noted in the course number. Some courses within our school curriculum, credit recovery, and correspondence may not satisfy NCAA requirements. For additional information, please see the College Counselor or the Athletic Director.

Early Graduation

Due to senior core elective requirements, students may choose to graduate after seven semesters. Students must meet the following conditions:

- 1.) Make an application to the appropriate counselor for approval of a plan to complete high school in this manner. This must be done prior to the end of the junior year. This plan requires written parental permission unless the student is eighteen years old. The Executive Director of Student Services makes the final decision.
- 2.) Pass all required subjects.
- 3.) Earn sufficient credits in summer courses and/or by carrying extra full-credit subjects during regular semesters to meet minimum graduation requirements.

Pass/Fail Course Options

In order to encourage students to explore areas of interest that might otherwise be avoided, a pass-fail course option is offered. The pass-fail option is not available for advanced placement courses and all required courses.

Pass-fail options generally benefit those students who fear a low grade might affect their rank-in-class, those who are apprehensive about taking a very difficult subject, and those whose fears about grades interfere with their ability to learn.

Pass-fail options available:

1. Physical Education.
2. One elective course per semester.

Rules and guidelines for the pass-fail option:

- a. Pass-fail courses are considered as a part of the normal academic class load.
- b. All course prerequisites remain in force.
- c. Parental consent forms are required for any pass-fail course request. No changes will be permitted once the pass-fail option is approved and the course begins.
- d. Students taking a pass-fail option will be subject to the same grading standards as any other student in the class. A student must earn a passing grade in order to receive a "P." The teacher will keep a regular grade record, but will report the Progress Report and semester grades as a "P" or "NC" (no credit).

- e. Pass-fail subjects will count for credit toward graduation, but will not be used in computing grade point average or rank-in-class.
- f. The student must declare in writing to the teacher the pass-fail course option within the first six weeks of the semester.

Students are cautioned to find out in advance if pass-fail courses will be acceptable to the specific college or university they plan to enter. Pass-fail applications are available from a student's counselor. Counselors should be consulted before a pass-fail request is made.

Second Grade Option

Students may repeat courses at ZBTHS to improve a grade.

- a. This option may be used only once per course.
- b. Students may not repeat courses at other institutions and transfer the grade to Zion-Benton Township High School.
- c. This option may be used only if the first grade was a "C" or "D".
- d. Pass-Fail courses cannot be repeated for a grade.
- e. This provision may apply to a maximum of two (2) units of credit per student.

Schedule Changes

Students must take responsibility with their parents and counselor for the registration and scheduling process. It is not easy to change schedules once registration is completed. Courses selected during the spring registration process may not be changed after the confirmation deadline of May 15 unless a compelling reason exists and only if there is room in the course.

Schedule changes may be made for one of the following reasons:

- a. Student failed a required course needed for graduation.
- b. Course completed by attending Summer or Alternative School.
- c. Data error in a student's schedule requiring a change.

School Administrators may request schedule changes to be made at any time for one of the following reasons:

- a. To balance class enrollments, student disciplinary problems and other.
- b. Placement in Special Education (Instructional and TAB) or Bilingual Education.
 - Students who drop a course after the first ten school days of a semester are warned that it may not be possible to add a replacement class to their schedule to meet the minimum class load requirement.
 - Students who drop a course after the first ten school days of a semester are also warned that they may, depending on the circumstances, be assigned a grade of "F" for that course.
 - Students who drop a course after the first quarter of each semester may be assigned a grade of "F" for that course.

Physical Education

Students may request exemption from physical education for the following reasons:

- a. A student in grades 10, 11, or 12 who is participating in athletics may request an exemption. Grade 10 exemptions will be considered on a case by case basis.
- b. A student enrolled in Marching Band may request an exemption for the fall semester each year.
- c. A student enrolled in Naval Science (NJROTC) may request an exemption.
- d. The student provides written evidence from an institution of higher education that a specific course not included in existing state or local school minimum graduation standards is required for admission. School district staff must verify that the student's present and proposed schedule will not permit completion of the needed course.
- e. The student lacks sufficient course credit or one or more courses required by state statute or local school board policies for graduation. Students who have failed required courses, transferred into the district with deficient credits, or who lack credits due to other causes will be eligible to apply for this exemption.

Parents who desire that their student be excused from physical education for religious reasons must request special permission from the Executive Director of Student Services.

Each request for exemption from physical education instruction is to be verified and eligibility determined on a case-by-case basis by school district staff. Every student excused from physical education course requirements will be provided with a schedule that meets minimum school day requirements and other policies of the district. No credit is issued for P.E. exemptions.

Approvals of exemptions will be for one semester only but may be renewed for additional semesters if circumstances warrant. Please see graduation requirement on page five for additional information on graduation credit requirements.

MEDICAL EXCUSES FROM P.E.

- a. A parent may request in writing for their son/daughter to be excused from P.E. up to three days.
- b. Students who need to be excused from P.E. longer than three days must have an excuse from the doctor.
- c. Students who are excused from P.E. for more than nine weeks by a physician will be medically excused. Credit for P.E. will not be given, and the student will not have to make up that semester of P.E.

The Advisory Program

Advisory is a “small school within a large school” that provides the more intimate relationship of a small school community during the four years of high school. The advisory system strives to provide each student with an advisor/advocate in order to nurture, inform, protect, and promote each advisee’s best interest and well-being. At the heart of the system is the relationship between advisor and advisee—where students have a person who knows them, cares about them, assists them, and will support each student’s academic and social-emotional growth. The advisor, a certified teacher, is paired with approximately 30 students, and they meet each school day for 21 minutes during an “advisory period.” Advisors serve several important functions for their advisees. These include being a mentor, acting as a coach, and serving as an advocate.

Alternative to High School Attendance College Credits During Senior Year

Students may elect to substitute college attendance for their regular senior term or second semester of their regular senior term under the following conditions:

- a. Make an application to the Executive Director of Student Services for approval of a plan to complete high school in this manner not later than the first semester of the junior year in high school.
- b. Have and maintain a B (3.0) grade average based on all full-credit subjects completed.
- c. Have passed all required subjects or agree to take in a post-high school institution (college) the same required subjects or acceptable college equivalents for any required senior subjects unless taken by special permission in prior years of summer terms.
- d. Have written parental permission, unless eighteen (18) years old.
- e. Present evidence of completion of at least 12 semester hours of post-high school credit for each semester of high school missed.
- f. The Zion-Benton Township High School diploma will be issued after the student has completed the requirements noted in A to E of this section.

Accelerated Placement Policy

Participation in the District’s accelerated programming--its Honors, Advanced Placement, and Dual Credit courses--is not limited to students who have been identified as gifted and talented; it is open to all students who may benefit from accelerated placement. In order to challenge each and every student to his or her fullest potential, the District uses multiple valid, reliable student performance measures to provide recommendations for placement, including, but not limited to, grades, standardized assessment data, faculty recommendations, learning mindset indicators, and student and parent requests.

Recommendations for student enrollment in the District’s Honors, Advanced Placement, and Dual Credit courses are based on the aforementioned criteria developed by the District or by the specific criteria developed by the governing body of the course (e.g., the College of Lake County for Dual Credit courses) and occur during the spring of each school year. However, because the District monitors student progress on a continuous basis, students, parents, counselors, and teachers may request changes in placement during the school year. Prior to a student’s removal from or addition to an accelerated

course, parents and students are notified of the proposed change by their teacher and/or counselor and engaged in the decision-making process prior to any course change.

Dual Credit at ZBTHS and the College of Lake County

Juniors and seniors who meet the College of Lake County's eligibility requirements may receive dual credit for qualifying elective courses during their junior and senior years. All electives that are eligible for dual credit with the College of Lake County (CLC) will be aligned to rigorous expectations and outcomes as designated by CLC. The Executive Director of Student Services must be consulted for eligibility, possible restrictions affecting grade point average, and athletic eligibility. Students are cautioned that some colleges will not accept courses under dual credit. Information regarding dual enrollment procedures will be provided to all juniors and seniors in time for students and parents to follow the required procedures to gain CLC approval. Completion of enrollment procedures with CLC and any payment of associated fees are the responsibility of the student and his/her parent. Students may transfer in CLC credits taken at CLC up to the number of elective credits needed for graduation. Permission must be obtained from the Executive Director of Student Services prior to taking the course(s). Students must maintain a cumulative 2.0 GPA at the conclusion of the semester preceding enrollment in the dual credit course(s) to qualify for dual credit courses. Administrative approval may be granted under special circumstances. Students who satisfy the completion of the course requirements with a grade of C or better will be awarded college credit through CLC as noted within the course description. As well, all students who pass this course with a D or better will receive .5 credit on their high school transcript and be awarded the appropriate high school grade weighting associated with their final grade. Students are cautioned by CLC that they need to maintain a "C" in their dual credit course to avoid negative impact when securing financial aid for college. Dual credit offerings are determined annually with CLC and subject to instructor availability.

Advanced Placement Program

The Advanced Placement (AP) Program is a curriculum sponsored by the College Board which offers standardized courses to high school students that are generally recognized to be equivalent to undergraduate courses in college. Therefore, all students planning to attend a college or university should consider taking AP courses while in high school. Participating colleges grant credit to students who obtained high enough scores on the exams to qualify. Zion-Benton Township High School offers 21 AP courses each year. Placement in AP courses is determined by PSAT scores, previous academic success in the corresponding subject area, and/or teacher recommendation. AP courses and grade weighted courses are listed on page eleven. The expectation for students enrolled in AP courses is to take the culminating AP exam at no cost, performing to the best of their abilities at the conclusion of the course. Exceptions must be approved by the administration.

Lake County Tech Campus

ZBTHS offers juniors or seniors the opportunity to enroll in occupationally oriented programs at the Lake County Tech Campus (LCTC) in Grayslake. All programs are two-year programs; however, students may take only the first year of the sequence if they desire. There are no tuition costs to the student for LCTC. Some programs will require the purchase of tools.

The Tech Campus is located next to the campus of the College of Lake County in Grayslake. The Tech Campus offers excellent educational opportunities to students who wish to obtain specialized vocational-technical skills. Students taking courses at the Tech Campus will divide their school day between the home school and the Tech Campus. Students will not be permitted to drive their own cars. Credits earned at the Tech Campus apply to graduation credits. The district will provide bus transportation to the Tech Campus for programs during the school day. Students attending the 3rd session are required to provide their own transportation home from the campus at the end of the day or take the late bus. Students interested in programs at the Tech Campus must request special application forms from their advisor/counselor. Once accepted for placement in a Tech Campus program, the student must remain enrolled for a minimum of one semester.

Note: Students withdrawing from the Tech Campus program before the July cut-off deadline will be charged \$50. Students withdrawing without valid cause after the August cut-off will be assessed a \$500 charge due to the District's liability to pay the full-year tuition cost.

COURSES OFFERED AT LAKE COUNTY TECH CAMPUS

Communications Programs

- 3D Gaming and Cybersecurity
- Game Programming and Virtualization
- Multimedia Design

Human Services Programs

- Biomedical Science
- Certified Nurse Assisting
- Cosmetology
- Criminal Justice
- Culinary Arts
- Early Education and Teaching
- Emergency Medical Services
- Firefighting
- Law Enforcement and Crime Scene Investigation
- Medical Assisting

Manufacturing/Industrial Programs

- Computer Integrated Manufacturing & Civil Engineering and Architecture
- Computer Support Services
- Construction Skills & Management
- Engineering Technology
- Laser Technology
- Machining Technology
- Robotics and Automation
- Welding & Fabrication

Transportation Programs

- Automotive Collision Repair
- Automotive Service

Summer School

The high school conducts a tuition-based summer session, in which students may take a maximum of one unit of credit to make up courses missed or failed. A separate bulletin describing the summer term is published in April. Students will be required to attend a minimum number of classroom hours to earn credit.

Credit Recovery

Zion-Benton Township High School District 126 offers credit recovery course options (similar to summer school) each semester before and after school based on sufficient enrollment. Students may enroll on a tuition basis to make up courses missed or failed. Course offerings and additional information are available in Student Services.

Special Services

A wide range of special services is available to those students who have demonstrated the need for eligibility. These services include: Homebound/hospitalized instruction, educational and psychological testing, substance abuse counseling, and accommodations for the 504 Plan.

The Student Assistance Program (SAP) is a special support program that is available to assist students in dealing with issues related to alcohol, other drugs, and other related issues that may disrupt the student's ability to achieve academically. Various support groups are offered to qualifying students. Students may be referred to the SAP through means of a self-referral or a referral from a teacher, parent, or friend. A team of specially trained educators screens each referral, interviews the student, and recommends an appropriate support program. Students who desire more information

should talk with their counselor or advisor. Any student or parent, who believes that there is a learning problem or a need for special service, should contact the student's counselor for further information.

Special Education

District 126 provides all students with disabilities a free and appropriate public education, in accordance with applicable state and federal laws. Parents/guardians of a student with disabilities and the student serve as team members with the public school staff in determining eligibility for and provisions of special education services. Every identified student will be assigned a case manager to facilitate registration, monitor compliance with legal requirements, and provide assistance to students, teachers, and parents.

The major goals of the District 126 Special Education Department are:

1. To provide the specialized instruction and supports necessary for a student with identified special education needs, in the least restrictive environment in which the student can succeed;
2. To ensure, as much as possible, that each student is encouraged:
 - a. to identify strengths and to minimize weaknesses,
 - b. to accept a major portion of the responsibility for the quality of his/her life,
 - c. to view oneself as a capable human being able to contribute to the home and school community, and
 - d. to actively engage in planning a post-high school career.

In order to achieve these goals, the District's Special Education Department offers a continuum of resources and instructional services for eligible students with disabilities in the categorical areas of: learning disabilities, cognitive disabilities, emotional disturbances, autism, physical disabilities, traumatic brain injuries, other health impairments, hearing and vision impairments (including deafness and deaf-blindness), and speech and language disabilities. Students will be registered for general education classes unless the student's individualized education program (IEP) specifies a more restrictive environment. The goal is to meet the educational and/or emotional needs of students using the least restrictive environment appropriate to the individual child.

To offer a full continuum of special education options, District 126 works with the Special Education District of Lake County (SEDOL). For additional information, contact the Special Education Dept. at 847-731-9500.

Fees

All students must pay a standard fee that includes book rental, technology fee, towel fee, consumables and lab fees, student handbook, and purchase of a lock. Some courses require additional material fees, workbooks, and/or supplemental reading texts. As soon as the instructor informs students what is needed, students should pay the fee or purchase the materials. Fees can be viewed and paid online, at any time, using Skyward Family Access. **A District fee waiver application is available in the District's Business Office.**

Title IX Compliance

Zion-Benton Township High School is in compliance with all federal and state Non-Discrimination and Equal Opportunity Laws, Orders and Regulations. The school will not discriminate against any of its educational programs and activities. Title IX of the Educational Amendments of 1972 and regulations issued there under require Zion-Benton Township High School not to discriminate on the basis of sex in its educational programs and activities including the areas of employment. Questions may be directed to the Title IX Coordinator at 847-731-9361 or write 3901 W. 21st Street, Zion, Illinois 60099.

Sample Four-Year High School Plan

Freshman Year

Semester 1	Semester 2
English 1	English 1
Math 1	Math 1
Social Studies / AP Human Geo / AP Econ	Social Studies / AP Human Geo / AP Econ
Biology	Biology
Physical Ed.	Health
Elective	Elective
Study Hall/Overload	Study Hall/Overload
Advisory/Lunch	Advisory/Lunch

Sophomore Year

Semester 1	Semester 2
English 2	English 2
Math 2	Math 2
Continental Studies / AP Choices	Continental Studies / AP Choices
Chemistry	Chemistry
Physical Ed.	Driver Ed** or Physical Ed.
Personal Finance*	Elective
Study Hall/Overload	Study Hall/Overload
Advisory/Lunch	Advisory/Lunch

Junior Year

Semester 1	Semester 2
American Lit. & Comp.	American Lit. & Comp.
Math 3	Math 3
United States History	United States History
Physics, Earth Science, or AP Offering	Physics, Earth Science, or AP Offering
Physical Ed.	Physical Ed.
Elective	Elective
Study Hall/Overload	Study Hall/Overload
Advisory/Lunch	Advisory/Lunch

Senior Year

Semester 1	Semester 2
English Literature Elective	English Composition Elective
Physical Ed.	Physical Ed.
Government	Elective
Core Elective	Core Elective
Elective	Elective
Elective	Elective
Study Hall/Overload	Study Hall/Overload
Advisory/Lunch	Advisory/Lunch

*Personal Finance can be taken sophomore, junior, or senior year.

**Driver Ed is not a graduation requirement but may be taken sophomore, junior, or senior year.

Honors Recognition

Determining Grade Point Average

Weighted Grade Point Averages are determined by averaging honor points awarded for grades earned. Grades earned in driver education and courses taken on a pass/fail basis will not be used in computing grade point averages or rank in class.

Grade Weighted Courses

Honors English 1	Honors English 2
AP English Language & Composition	AP English Literature & Composition
Dual Credit English Composition	Math 1 Honors
Math 2 Honors	Honors Pre-Calculus
AP Calculus AB/BC	AP Statistics
AP Computer Science Principles	Honors Biology
Honors Chemistry	AP Biology
AP Chemistry	AP Environmental Science
AP Physics C-	AP Physics 2
AP Economics (2)	AP Human Geography
AP World History	AP United States History
AP United States Government and Politics	AP Psychology
AP Studio Art	AP Music Theory
French 3 & 4	German 3 & 4
Spanish 3 & 4	American Sign Language 3 & 4
AP Spanish Language and Culture	AP Spanish Literature and Culture
Dual Credit Intro. To Business	Dual Credit Machine Trades Blueprint Reading

The table below illustrates **honor points** earned for grades:

	A	B	C	D	Pass	Fail
Normal Honor Points	4	3	2	1	0	0
Weighted Honor Points	5	4	3	1	0	0

Honor Roll

At the end of each semester an Honor Roll and a Higher Honor Roll will be computed and published. Students achieving a 3.50 to 3.74 weighted grade point average will be listed on the Honor Roll. Students with weighted averages of 3.75 and above will be listed on the high honor roll.

Grades in Driver Education and pass/fail courses are not included in honor roll computations. Students receiving “incomplete” grades may not have their name published although they may make Honor Roll status after the incomplete is removed.

Graduation Honors

Student graduation honors will be awarded based on the Cum Laude system. Graduation honors will be based upon the seventh semester cumulative grade point average. Final class standing is based upon the completion of all graduation requirements. Cumulative grade point average at the end of six semesters will be available as soon as possible so that students may audit and verify the computation. Seventh semester cumulative grade point average will be released as quickly as possible following the close of the seventh semester

The table below illustrates the **Graduation Honors Recognition Program**:

Rank Designation	Grade Point Average
Summa Cum Laude	4.00 and higher
Magna Cum Laude	3.75 to 3.99
Cum Laude	3.50 to 3.74

COURSE OFFERINGS

BILINGUAL EDUCATION

Bilingual courses are for students who are learning English as a second or other language. Bilingual courses are offered in English, Mathematics, Science, and Social Science. Mainstream content classes provide instruction and assistance in English language acquisition while students with limited English proficiency are placed in sheltered content classes. Mainstream and sheltered content classes fulfill graduation requirements in our academic departments.

The goals of the Bilingual Education program are to help students acquire social and academic English language proficiency in all four language domains (reading, writing, speaking, and listening) while gaining the academic skills needed for success in school and the workplace. Registration in Bilingual classes is restricted to students identified as Emergent Bilinguals through language proficiency testing and teacher recommendation.

Michael Blades, Department Head
847-731-9370 - bladesm@zbths.org

PERSONAL FINANCE

EL050

Either Semester – .50 Credit – 10, 11, 12. Graduation Requirement effective with Class of 2023.

Prerequisite: Students identified through testing and teacher recommendation as English Learners.

Course Description: This course is designed to support English Learners. This required course provides students with the knowledge and skills they need to explore their financial future while making life-long decisions. Students will gain an understanding of financial services, budgeting, credit cards, loans, investing, retirement, insurance, and taxes. This course fulfills the state requirement of Consumer Economics. Throughout the year, students learn the content of the course and improve their academic English language skills in computer technology.

DRIVER EDUCATION

EL047

Either Semester – .25 Credit – Elective - 10, 11, 12

Prerequisite: Students identified through testing and teacher recommendation as English Language Learners (ELLs).

Fees: Student Driving Permit \$20 (Secretary of State). Driver Education fee: \$275

Course Description: This course content is identical to mainstream Driver Education, but the instruction and materials are designed to support English Learners. Students will simultaneously learn the content of the course and improve their English language skills.

HEALTH

EL042

Either Semester – .50 Credit – 9, 10, 11, 12

Prerequisite: Students identified through testing and teacher recommendation as English Language Learners.

Course Description: The course content is identical to mainstream Health, but the instruction and materials are designed to support English Learners. Throughout the year, students learn the content of the course and improve their academic English language skills in health.

BEGINNER ENGLISH FOR EMERGENT BILINGUALS

EL011

All Year – 1 Credit – 9, 10, 11, 12

Students enrolled in Beginner English for Emergent Bilinguals may also attend Bilingual Resource Center for credit.

Prerequisite: Students identified through testing and teacher recommendation as English Learners.

Course Description: This course is designed for students with very limited proficiency in English. The course provides individualized work in language development, including reading, writing, speaking, and listening. Special emphasis is placed on the development of both conversational and academic vocabulary.

INTERMEDIATE ENGLISH FOR EMERGENT BILINGUALS

EL012

All Year – 1 Credit – 9, 10, 11, 12

Students enrolled in Intermediate English for Emergent Bilinguals may also attend Bilingual Resource Center for credit.

Prerequisite: Students identified through testing and teacher recommendation as English Learners.

Course Description: This course is designed for limited English proficiency students who have some fluency but need to continue to develop their English language skills. It builds on the language introduced in the beginner level course and further expands students' reading and writing skills. Special emphasis is placed on the development of both conversational and academic proficiency.

ADVANCED ENGLISH FOR EMERGENT BILINGUALS

EL013

All Year – 1 Credit – 9, 10, 11, 12

Students enrolled in Advanced English for Emergent Bilinguals may also attend Bilingual Resource Center for credit.

Prerequisite: Students identified through testing and teacher recommendation as English Learners.

Course Description: This course is designed for advanced English Learners. Special emphasis is placed on the development of academic language proficiency in preparation for mainstream English classes.

MATH 1

EL055 – NCAA

All Year – 1 Credit – 9

Prerequisite: Students identified through testing, teacher recommendation as English Learners, and prerequisites as required by the mathematics department.

Fees: A TI-84 Plus Graphing Calculator is required.

Course Description: This course is identical to mainstream Math 1. The content is the same as mainstream Math 1, but the instruction and materials are designed to support English Learners. Throughout the year, students learn the content of the course and improve their academic English language skills in mathematics.

MATH 2

EL057 – NCAA

All Year – 1 Credit – 10

Prerequisite: Students identified through testing, teacher recommendation as English Learners, and prerequisites as required by the mathematics department.

Fees: A TI-84 Plus Graphing Calculator is required.

Course Description: This course is identical to mainstream Math 2. The content is the same as mainstream Math 2, but the instruction and materials are designed to support English Learners. Throughout the year, students learn the content of the course and improve their academic English language skills in mathematics.

MATH 3

EL058 – NCAA

All Year – 1 Credit – 11

Prerequisite: Students identified through testing, teacher recommendation as English Learners, and prerequisites as required by the mathematics department.

Fees: A TI-84 Plus Graphing Calculator is required.

Course Description: This course is identical to mainstream Math 3. The content is the same as mainstream Math 3, but the instruction and materials are designed to support English Learners. Throughout the year, students learn the content of the course and improve their academic English language skills in mathematics.

BIOLOGY

EL021 – NCAA

All Year – 1 Credit – 9

Prerequisite: Students identified through testing, teacher recommendation as English Learners, and prerequisites as required by the science department.

Course Description: This course is identical to mainstream Biology. The content is the same as mainstream freshman Biology, but the instruction and materials are designed to support English Learners. Throughout the year, students learn the content of the course and improve their academic English language skills in science.

CHEMISTRY

EL022 – NCAA

All Year – 1 Credit – 10

Prerequisite: Students identified through testing, teacher recommendation as English Learners, and prerequisites as required by the science department.

Course Description: This course is identical to mainstream Chemistry. The content is the same as mainstream sophomore Chemistry, but the instruction and materials are designed to support English Learners. Throughout the year, students learn the content of the course and improve their academic English language skills in science.

EARTH SCIENCE

EL025 – NCAA Pending

All Year - 1 Credit- 11 and 12

Prerequisite: Students identified through testing and teacher recommendation as English Learners and prerequisites as required by the science department.

Course Description: This course is identical to mainstream Earth Science. The content is the same as mainstream Earth Science, but the instruction and materials are designed to support English Learners. Earth Science is a course that collectively seeks an understanding of the earth and its environment in space. Students will explore the topics of oceanography, geology, astronomy, meteorology and geography. Students will have the opportunity to participate in laboratory investigations and simulations to gain personal experiences with the surroundings in which they live.

PHYSICS

EL024 – NCAA

All Year-1 Credit – 11

Prerequisite: Students identified through testing and teacher recommendation as English Learners and prerequisites as required by the science department.

Course Description: This course is identical to mainstream Physics. The content is the same as mainstream junior Physics but the instruction and materials are designed to support English Learners. Students will simultaneously learn the content of the course and improve their English language skills.

SOCIAL STUDIES

EL030 – NCAA

All Year – 1 Credit – 9

Prerequisite: Students identified through testing and teacher recommendation as English Language Learners.

Course Description: This course is identical to mainstream Social Studies. The content is the same as mainstream freshmen social studies classes, but the instruction and materials are designed to support English Learners. Throughout the year, students learn the content of the course and improve their academic English language skills in social studies.

AFRICAN STUDIES: HISTORY AND INFLUENCE

EL034 – NCAA

Either Semester - .50 – Sophomore Core, Elective –10, 11, 12.

This course is part of the sophomore core, continental studies classes. Students select two of the following four classes: African Studies, East Asian Studies, European and West Asian Studies, and Latin American Studies. . The course cannot be taken to replace a missing U.S. History or U.S. Government course.

Prerequisite: Students identified through testing and teacher recommendation as English Learners.

Course Description: In this course, students will explore the history and influence of the African continent. The content is the same as mainstream African Studies, but the instruction and materials are designed to support English Learners. Throughout the year, students learn the content of the course and improve their academic English language skills in social studies.

EAST ASIAN STUDIES: HISTORY AND INFLUENCE

EL035 – NCAA

Either Semester - .50 – Sophomore Core, Elective –10, 11, 12.

This course is part of the sophomore core, continental studies classes. Students select two of the following four classes: African Studies, East Asian Studies, European and West Asian Studies, and Latin American Studies. . The course cannot be taken to replace a missing U.S. History or U.S. Government course.

Prerequisite: Students identified through testing and teacher recommendation as English Learners.

Course Description: In this course, students will explore the history and influence of East Asia. The content is identical to mainstream East Asian Studies, but the instruction and materials are designed to support English Learners. Throughout the year, students learn the content of the course and improve their academic English language skills in social studies.

EUROPEAN AND WEST ASIAN STUDIES: HISTORY AND INFLUENCE EL036 – NCAA

Either Semester - .50 – Sophomore Core, Elective –10, 11, 12.

This course is part of the sophomore core, continental studies classes. Students select two of the following four classes: African Studies, East Asian Studies, European and West Asian Studies, and Latin American Studies. . The course cannot be taken to replace a missing U.S. History or U.S. Government course.

Prerequisite: Students identified through testing and teacher recommendation as English Learners.

Course Description: In this course, students will explore the history and influence of Europe and Western Asia. The content is identical to mainstream European and West Asian Studies, but the instruction and materials are designed to

support English Learners. Throughout the year, students learn the content of the course and improve their academic English language skills in social studies.

LATIN AMERICAN STUDIES: HISTORY AND INFLUENCE

EL037 – NCAA

Either Semester - .50 – Sophomore Core, Elective –10, 11, 12.

This course is part of the sophomore core, continental studies classes. Students select two of the following four classes: African Studies, East Asian Studies, European and West Asian Studies, and Latin American Studies. . The course cannot be taken to replace a missing U.S. History or U.S. Government course.

Prerequisite: Students identified through testing and teacher recommendation as English Learners.

Course Description: In this course, students will explore the history and influence of Latin America. The content is identical to mainstream Latin American Studies, but the instruction and materials are designed to support English Learners. Throughout the year, students learn the content of the course and improve their academic English language skills in social studies.

UNITED STATES HISTORY

EL032 – NCAA

All Year - 1 Credit - 11

Prerequisite: Students identified through testing and teacher recommendation as English Learners.

Course Description: The content is identical to mainstream junior United States History classes, but the instruction and materials are designed to support English Learners. Students will simultaneously learn the content of the course and improve their academic English language skills in history.

UNITED STATES GOVERNMENT

EL033 – NCAA

Either Semester - .50 Credit - 12

Prerequisite: Students identified through testing and teacher recommendation as English Learners.

Course Description: The content is identical to mainstream United States Government classes, but the instruction and materials are designed to support English Learners. This course will meet the Illinois State Board of Education's requirements with regards to passing the Federal and State Constitution Test, a unit on Consumer Education, and Civics. Students will simultaneously learn the content of the course and improve their English language skills.

BILINGUAL RESOURCE CENTER

EL0911/EL0913

Either Semester – .25 Credit – Elective – 9, 10, 11, 12

Prerequisite: Students identified through testing and teacher recommendation as English Learners.

Course Description: This course is designed to help the individual Bilingual student in daily classroom work. Students will also prepare for the ACCESS Test over the course of the year. Supplementary academic materials are made readily available to students along with tutoring and other assistance.



CAREER AND TECHNICAL EDUCATION

The Career and Technical Education Department seeks to expose students to diverse and expansive academic programming that prepares students for a variety of careers within Business, Marketing, and Computer Education; Family and Consumer Sciences; and Technology and Engineering Education fields. The knowledge and skills acquired through the department's coursework plays a pivotal role in preparing students for life beyond high school. Because of the emphasis on postsecondary readiness, students will also have a number of opportunities to earn dual credit or industry-relevant credentials as part of completing coursework. Regardless of the coursework pursued, the department's programming emphasizes the development of knowledge and skills that are applicable in and transferable to a variety of settings--to postsecondary education, the workplace, and life.

*Andrew Stout, Department Head
847-731-9492 - stouta@zbths.org*

BUSINESS EDUCATION

PERSONAL FINANCE

BE5021/BE5023

Either Semester - .50 Credit (Graduation requirement starting with the Class of 2023)-10, 11, 12

Course Description: This required course provides students with the knowledge and skills they need to explore their financial future while making life-long decisions. Students will gain an understanding of financial services, budgeting, credit cards, loans, investing, retirement, insurance, and taxes. This course fulfills the state requirement of consumer economics.

BUSINESS CONCEPTS

BE503

Either Semester - .50 Credit – Elective - 9, 10, 11, 12

Course Description: This course is a “survey” type of course that will introduce students to the world of business and help prepare them for the economic roles of consumer, worker, and citizen. Topics include: basic economics, business ethics, potential business ownership, employer/employee relationships, human resource issues, business technology applications, and the role of consumers in our economy. The course emphasizes skills, knowledge, and resources needed for careers of the 21st Century.

BUSINESS LAW

BE504

Either Semester - .50 Credit - Elective – 11, 12

Course Description: This course is designed as an introduction to law and its application to everyday life. Emphasis will be placed on both criminal and civil laws and their influence on contracts, employment, minors, and property. Group discussion is an integral part of daily class requirements. Career opportunities are highlighted throughout the semester.

BUSINESS INCubatoredu

BE506

All Year – 1 Credit

Prerequisite: Open to any Junior or Senior; however, any Sophomore with a teacher recommendation may participate.

Course Description: *What if Shark Tank was a class?*

This hands-on and team-based course is designed to get students excited about becoming true entrepreneurs by giving them the opportunity to create and fully develop their own product or service. Real-world entrepreneurs and business experts serve as coaches and mentors guiding student teams through the process of ideation, market research, and business plan development. Over the course of the year, student teams learn about marketing, accounting, as well as the legal aspects of starting a business. The businesses students build are real – which means students experience mistakes, take risks, and learn to pivot based on market needs. Students have access to a network of professionals to further develop their skills (teamwork, problem solving, presentation, communication) for college and career readiness. Pitch Week helps to further fire the entrepreneurial spirit by putting student teams in front of actual investors in a ‘SharkTank’-style pitch event to win funding and turn their wishful thinking into a reality. *Successful completion of this course fulfills the Consumer Education graduation requirement.*

OWNING AND OPERATING A BUSINESS

BE527

Either Semester - .50 Credit - Elective – 11, 12

Helpful Course(s): Business Concepts, Sports and Entertainment Marketing, and Business Law

Course Description: Students will acquire the skills that will permit them to become their own boss. They will begin to develop the knowledge and confidence necessary to build their own business. Owning and Operating a Business offers exceptional opportunities for men/women who work hard to find new and better ways to serve the needs and wants of the customer. Various topics include: entrepreneurial options for the new century, analyzing elements for success, dealing with your competition, creating a business plan for success, basic accounting and management decisions, influences of marketing, business ethics, and student entrepreneurs.

SPORTS AND ENTERTAINMENT MARKETING

BE509

Either Semester - .50 Credit - Elective – 9, 10, 11, 12

Helpful Course: Business Concepts

Course Description: This course introduces students to the fundamentals of marketing through the sports and entertainment industries. Students will explore both the sports and entertainment industries, focusing on real world business perspectives and the role these areas play in our society. Students will develop their understanding of marketing concepts and strategies, the marketing mix, marketing ethics and law and the components of a marketing plan. Students will also be exposed to more traditional forms of marketing; school, television, radio, in stores, and Internet. Students will learn and apply the functions of marketing through hands-on learning, group activities and projects, videos, computer integrated activities and a field trip.

MOBILE APPS AND CODING

BE521

Either Semester - .50 Credit – Elective - 9, 10, 11, 12

Course Description: In this course, students will learn problem-solving strategies, software design, and the foundations of computer science. Students will use two key tools: the Project STEM programming environment and EarSketch, a software package that turns your code into music. Not only will this course prepare you for continuing your studies in computer science (for example, by taking AP Computer Science Principles), but it will also teach you how to think like a scientist and solve real-world problems, skills that are important to every 21st-century citizen. There are no prerequisites for this course, although you should have basic familiarity with how to operate a computer and use applications. It's also recommended that you have familiarity with basic algebra principles before starting this course.

MICROSOFT OFFICE SPECIALIST (MOS) PREPARATION

BE5051/BE5053

Either Semester - .50 Credit – Elective - 11, 12

Course Description: Successful completion of this course will prepare students to earn one or more Microsoft Office Specialist (MOS) certification(s). These certifications provide students a competitive edge in today's technology-centered job market and equip students with the skills they need in college. Students will gain a fundamental understanding of the Microsoft Word, Excel, and PowerPoint environments and the ability to complete tasks independently.

(DUAL CREDIT) INTRODUCTION TO BUSINESS

DC403

Either Semester - .50 Credit – Elective - 11, 12

3.0 College Credit and high school grade weighting available for eligible students

Course Description: This dual credit course provides a broad overview of the principles, functions, and careers in business. *Students will develop critical business knowledge and skills in a dynamic environment that emphasizes "real-world" applications of business concepts.* Topics included are: economics, global business, ethics, business structures, entrepreneurship, management, marketing, accounting, finance, and operations management.

BUSINESS EDUCATION SEMINAR

TBA

Either Semester - .50 Credit - Elective 11, 12 – may be repeated for a total of one credit

Prerequisite: Written counselor, teacher and Division Chair approval

Course Description: This capstone course is designed for students wishing to obtain specialized Business credit. Includes an in-depth project in the seminar area of study.

FOR THE FOLLOWING COURSES, PLEASE SEE LAKE COUNTY TECH CAMPUS BEGINNING ON PAGE 64:

3D GAMING AND CYBERSECURITY	TC697
GAME PROGRAMMING AND VIRTUALIZATION	TC679

FOR THE FOLLOWING COURSES, PLEASE SEE LAKE COUNTY TECH CAMPUS BEGINNING ON PAGE 64:

3D GAMING AND CYBERSECURITY	TC697
GAME PROGRAMMING AND VIRTUALIZATION	TC679

FAMILY AND CONSUMER SCIENCE

FAMILY RELATIONS AND PARENTING	FC552
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Either Semester - .50 Credit - Elective – 10, 11, 12

Course Description: This course is an in-depth study of the child and the parents. Topics include: parenthood readiness, qualities of a good parent, environmental and hereditary factors affecting the child, reproduction and parenting responsibilities. The student will study the young child from conception through the birth process. The prenatal unit stresses fetal development and maternal care. Students participate in hands-on experiences to develop good parenting and childcare skills as well as explore careers in the childcare field.

EARLY CHILDHOOD STUDIES	FC553
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Either Semester - .50 Credit - Elective – 10, 11, 12

Course Description: This course is designed to help students prepare for a career in early childhood education. Class starts with an overview of the physical, cognitive, social, and emotional characteristics of young children. Students in Early Childhood Studies will also learn strategies for keeping children safe, healthy, and well-nourished. In addition, students will learn to provide experiences that build children's curiosity and enthusiasm for learning. The course will prepare the student for the L.C.H.S. Technology Campus "Early Childhood Education" program, world of work and / or parenting roles.

LIFE MANAGEMENT	FC554
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Either Semester - .50 Credit - Elective 10, 11, 12

Course Description: This course takes students on a journey into adulthood. Students will learn communication skills to improve relationships with others personally and professionally. This course encourages students to build a sense of identity and become independent. This course introduces daily aspects of life as an adult from financial preparation to learning about the importance of dressing for the occasion to make a good impression. Students will find structure in life through the roles they fill as a parent, spouse, and worker.

INTRODUCTION TO FOODS AND NUTRITION	FC559
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Either Semester - .50 Credit - Elective – 10, 11, 12

Course Description: This is an introductory level course for students who are new to the culinary world and those who want to brush up on their skills. Throughout the course students will develop a knowledge and understanding of culinary principles and nutrition. This course encompasses food service preparation management, nutrition concepts, safety and sanitation practices, and maximizing food resources. Careers in culinary arts and nutrition will be explored. Laboratory participation in which students will serve up simple and challenging recipes to build their skillset is required for success.

MENU PLANNING AND ENTERTAINING	FC560
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Either Semester - .50 Credit - Elective - 10, 11, 12

Prerequisite: Introduction to Foods and Nutrition with a "C" or higher

Course Description: This sequential course focuses on expanding students' knowledge and experiences with nutrition concepts, food science, and healthy lifestyles. Students will learn about nutritional analysis, food allergies, menu analysis, and food safety and sanitation covered through theory, projects and laboratory experiences. Students will utilize this information about meal planning and preparation, as well as catering to special dietary concerns related to

allergies and cultures. This course will also teach about budgeting for meals and presentations in entertaining. Culinary lab experience is mandatory for success as students prepare dishes that focus on nutritional and visual appeal.

FAMILY AND CONSUMER SCIENCES SEMINAR

TBA

Either Semester - .50 Credit – Elective – 10, 11, 12. May be repeated for a total of one credit.

Prerequisite: Written teacher and Division Chair approval

Course Description: Designed for students wishing to obtain specialized Family and Consumer Science credit. Includes an in-depth project in the seminar area of study.

FOR THE FOLLOWING COURSES, PLEASE SEE LAKE COUNTY TECH CAMPUS BEGINNING ON PAGE 64:

CERTIFIED NURSE ASSISTING	TC653
COSMETOLOGY	TC657
CULINARY ARTS	TC656
EARLY EDUCATION AND TEACHING	TC655
MEDICAL ASSISTING	TC654

INDUSTRY AND TECHNOLOGY

INTRODUCTIONS TO DRONES

IA 651

Either Semester - .50 Credit — Elective - 9, 10, 11, 12

This introductory course allows students to explore the world of drones, Unmanned Aircraft Systems (UAS) and their related technologies. Students will discover how drones are currently being used in a wide range of applications and what the future holds for this fast-growing technology. In this introductory course, students will fly drones and learn the fundamentals of operating unmanned aircrafts. Students will also explore the usage of drone technologies in aerial photography and modern business and industry, examine how drones are affecting our lives, and learn about the increasing career possibilities in the drone technology field.

DRONE PILOT PREPARATION

IA652

2nd Semester - .50 Credit — Elective - 11-12

Prerequisites: Introduction to Drones, Students must be 16 years or older.

This course expands on content within Introduction to Drones. In this course, students will become familiar with remote aviation as well as practice and learn the skills necessary to be a safe and efficient remote pilot. Students will further explore remote aviation careers, Federal Aviation Administration (FAA) rules and regulations; types and capabilities of Unmanned Aircraft Systems (UAS); drone piloting; aerial photography and videography; maintenance and preflight procedures; and aeronautical decision making. As part of coursework, students will have the opportunity to earn their FAA Part 107 certification and add “FAA-Certified UAS Pilot” to their resume.

3-D MODELING

IA650

Either Semester - .50 Credit – Elective - 9, 10, 11, 12

Course Description: This course is an introduction into the 3D drawing and printing world. During this class students will learn how to draw 3-dimensionally using the Autodesk Inventor software and print using a 3D printer. In order to be successful in this course, students should be able to follow complex directions. This class is great for anyone expressing interest in engineering, modeling, design, jewelry making, and development jobs.

PRE-ARCHITECTURE

IA604

Either Semester - .50 Credit – Elective - 9, 10, 11, 12

Course Description: This course is of particular value for students interested in the following fields: architectural drafting, interior design, the building trades, or other residential architecture areas. This course introduces the student to tools and techniques used in the field of architecture. The student will draw a set of plans for a house including floor plans, foundation plans, elevations, site plans and perspectives. A computer and AutoCAD software will be used to complete many of these tasks.

MACHINE TRADES BLUEPRINT READING (DUAL CREDIT)

DC406

Either Semester - .50 Credit (Grade Weighted) - Elective – 10, 11, 12.

3.0 college credit and high school grade weighting available for eligible students.

Prerequisite: A score of 470 or above on the Evidence Based Reading and Writing section of the SAT/PSAT *OR* Top 1/3 of class after 6 semesters of high school *OR* Unweighted cumulative GPA 3.0 or above after 5 semesters.

Course Description: This dual credit course is designed to study the principles that are essential for visualization and training in the interpretation of blueprints and sketches of machine parts. Attention is given to representations of common machine processes, special forms of dimensioning, sections, auxiliary views, symbols, geometric tolerancing, machine sketching, surface finished and other drafting design principles. Upon successful completion, this course fulfills 3 credits towards a Machine Tool Trades Associate's Degree in Applied Science and Career Programs at the College of Lake County (CLC). Students may also apply these credits to an Associates in Arts or an Associates in Science as elective credits at CLC.

ENGINEERING AND ARCHITECTURE

IA605

Either Semester - .50 Credit - Elective – 10, 11, 12

Prerequisite: Credit in two of the following courses: Pre-Architecture, 3D Modeling, or Machine Trades Blueprint Reading

Course Description: This course is an expansion and continuation of 3D Modeling, Machine Trades Blueprint Reading, and Pre-Architecture. Students will further their knowledge in Engineering and Architecture by creating more detailed and in-depth drawings through Aspire, Inventor, AutoCAD, laser engraving/cutting, CNC Routing, 3D Printing, and problem solving. Students may repeat this class for elective credit.

ELECTRICITY & ELECTRONICS 1

IA608

Either Semester - .50 Credit – Elective 9, 10, 11, 12

Course Description: Electricity and Electronics 1 provides opportunity for students to study AC and DC currents, their properties, their applications, advantages and disadvantages. The study of resistors, semiconductors, fuses, circuit breakers, switches of all types and wiring will be covered. Students will create basic circuits, learn soldering skills, learn how to read resistor color coding, and study and wire basic home circuits and switches. This will give the students hands-on experience in wiring. The class will conclude with a look at the overall impact of electricity and new technologies such as electric and hybrid vehicles, mass transit applications, cell phone technology and computing technologies.

ELECTRICITY & ELECTRONICS 2

IA628

Either Semester - .50 Credit – Elective - 9, 10, 11, 12

Course Description: Electricity and Electronics 2 is an in-depth hands-on course related to the use and function of electricity. More complex circuits are studied and skills in soldering are furthered. Safety will be covered by way of the students earning an OSHA 10 hour certification card. In the area of residential wiring, the main project includes coordinating with the Carpentry and Construction class to wire solar cells and install all wiring and the breaker box into the S.H.E.D. project.

METALS 1

IA609

Either Semester - .50 Credit - Elective - 9, 10, 11, 12

Course Description: This course is an introduction to basic machining, metal forming, and metal artwork. Areas of study include basic lathe and millwork procedures, arc and oxygen acetylene gas welding, metal forming, sheet metal manufacturing, and tinwork. Shop safety and basic math skills are integrated throughout the areas of study.

METALS 2

IA630

Either Semester - .50 Credit - Elective – 9, 10, 11, 12

Prerequisite: "C" or higher in Metals 1

Course Description: A continuation in metalworking studies. Areas of study include advanced lathe and milling machine process, M.I.G. and T.I.G. welding, plasma arc procedures, metal pattern making and molding. Other areas of study include Computer Numerical Control (CNC).

POWER MECHANICS 1

IA610

Either Semester - .50 Credit - Elective - 9, 10, 11, 12

Course Description: An introduction to the auto-power field, this course covers the basic concepts of power technology. Study in power technology includes various accessory systems common to the transportation industry. This will include engine rebuilding, valve and seat grinding, carburetor work, tune-ups and various repairs. Work is done on small 2 and 4 cycle engines.

POWER MECHANICS 2

IA612

Either Semester - .50 Credit - Elective – 9, 10, 11, 12

Prerequisite: “C” or higher in Power Mechanics 1 (Suggested)

Course Description: This course is a continuation of Power Mechanics 1 with emphasis on engine troubleshooting and repair. The planned activities will allow students to become knowledgeable of fundamental principles and technical skills related to troubleshooting, repairing, identifying parts and making precision measurements. Safety will be a key component of this class. Students who successfully display proficiency in these skills have the opportunity to earn industry-recognized technician certification by the Engine & Equipment Training Council. In addition to the small engine topics above, students will also be exposed to career opportunities related to small engines as well as an emphasis on soft skills that are necessary to be successful in any workplace.

VIDEO PRODUCTION 1

IA624

Either Semester – .50 Credit – Elective – 9, 10, 11, 12

Course Description: This is a lab class designed to introduce students to the fundamentals of both live and recorded video production. Students will learn audio and video editing and have the opportunity to earn the industry-recognized credential, Adobe Certified Associate certification in Premiere Pro. Instruction includes camera operations, sound and lighting techniques, sound mixing, and online streaming. Students learn the operation and maintenance of video production equipment such as, cameras, microphones, lighting equipment, audio mixing, live video switching, and other equipment used in the video and audio production. Students become members of a TV studio crew and may be required to assist with recording various ZBTHS after-school activities.– Video Production 1 is the prerequisite for Video Production 2.

VIDEO PRODUCTION 2

IA6251/IA6253

Either Semester – .50 Credit – Elective – 9, 10, 11, 12

Prerequisite: Video Production

Course Description: This is a lab class designed to continue the study of video production by crewing and creating programs for ZBTV. In addition to expanding on the activities explored in the first course, students work in a team-based environment to create a variety of video and audio related broadcasts. Students gain further expertise in producing, directing, and using the camera, character generator, cinematography, audio board, special effects and editing during both studio and remote shoots. Students fulfill in-school and after-school commitments with maturity and dedication to excellence.

PRINTING 1

IA614

Either Semester - .50 Credit - Elective - 9, 10, 11, 12

Helpful Course: Pre-Architecture

Course Description: Printing is an introductory course for all students who are interested or curious in graphic arts. Basic skills such as computer layout and design work will lead into projects in the area of sublimation printing including phone cases, coffee mugs, dog tags, and more! In screen-printing, students will be able to print on t-shirts & hoodies as well as create stickers and posters. All projects are student designed to appeal to the interest of each student. The final project will be planned out by the student from start to finish and then approved by the instructor.

PRINTING 2

IA615

Either Semester - .50 Credit - Elective – 9, 10, 11, 12

Prerequisite: “C” or higher in Printing 1 (Suggested)

Course Description: Printing 2 is a continuation of Printing 1. Sublimation, Screen Printing, UV Printing and Direct to Garment Printing will be covered in this course. Projects will include personalized 12-month calendars and concept board games. Sublimation projects will allow the student to emphasize an individual interest and to create their own projects such as water bottles, puzzles, and Direct-to-Garment printing that allows students’ digital designs to be

printed directly onto a T-shirt or hoodie. Students will have the opportunity to earn industry-recognized certification in screen printing from the American Screen Printing Association.

WOODS 1

IA6171/IA6173

Either Semester - .50 Credit - Elective - 9, 10, 11, 12. May be taken independently with instructor approval.

Course Description: This course is for any student who wants to learn how to use woodworking tools while completing projects to gain skills that lead into woodworking and construction. Course content includes selecting, planning, constructing and finishing projects such as a bird feeder, cutting board, and a clock. Machine operations, hand tool processes and portable power tool operations are required laboratory learning experiences. Instruction will be individualized with each student taught according to knowledge and skill development needs.

WOODS 2

IA619

Either Semester - .50 Credit - Elective – 9, 10, 11, 12. May be taken independently with instructor approval.

Prerequisite: “C” or higher in Woods

Course Description: Woods 2 provides the opportunity to continue using proper methods and skills to create projects throughout the semester. The course content includes material estimation, cost estimation, project design and composition, and the use of specialty tools and finishes. Students will learn how to design projects using the Aspire program and then set cut paths to send to the CNC router for final cutting. The ability to design and run a CNC router will help students who are going into the fields of engineering, architecture, manufacturing, cabinet making, and woodworking. Some of the projects that students will make during this class include a name sign, a family sign, a shaped cutting board, a phone speaker amplifier, and an epoxy river box.

INTRODUCTION TO CARPENTRY - BUILDING TRADES CONSTRUCTION IA618

Either Semester - .50 Credit - Elective – 11, 12

Course Description: This introductory course is for students interested in exploring the building trades. Units of instruction the first semester include gaining knowledge and skills using fixed woodworking machines, hand tools, and portable power tools used in the carpentry profession. Projects are required. Second semester instruction involves learning an understanding of architectural drawing, blueprint reading, using and maintaining hand and power tools, understanding and using building materials, and understanding construction procedures and processes. Throughout the year, students will construct a model house. This introductory course is for students desiring to gain knowledge and skills required for admission to the building trades capstone occupational course.

TECHNOLOGY SEMINAR

TBA

Either Semester - .50 Credit - Elective- 10, 11, 12. May be repeated for a total of one credit.

Prerequisite: Written Division Chair approval

Course Description: Designed for students wishing to obtain specialized technology credit. This course includes an in-depth project in the seminar area of study.

FOR THE FOLLOWING COURSES, PLEASE SEE LAKE COUNTY TECH CAMPUS BEGINNING ON PAGE 65:

3D GAMING AND CYBERSECURITY	TC697
AUTOMOTIVE COLLISION REPAIR	TC659
AUTOMOTIVE SERVICE	TC670
COMPUTER INTEGRATED MANUFACTURING & CIVIL ENGINEERING AND ARCHITECTURE	TC694
COMPUTER SUPPORT SERVICES	TC680
CONSTRUCTION SKILLS & MANAGEMENT	TC682
CRIMINAL JUSTICE	TC690
EMERGENCY MEDICAL SERVICES	TC651
ENGINEERING TECHNOLOGY	TC692
FIREFIGHTING	TC686
GAME PROGRAMMING AND VIRTUALIZATION	TC679
LASER TECHNOLOGY	TC691

LAW ENFORCEMENT AND CRIME SCENE INVESTIGATION	TC698
MACHINING TECHNOLOGY	TC658
MULTIMEDIA DESIGN	TC663
ROBOTICS AND AUTOMATION	TC696
WELDING & FABRICATION	TC667

DRIVER EDUCATION

The purpose of Driver Education is to enhance a student’s ability to physically drive an automobile, to develop a mental process of decision-making, and to interact emotionally and socially with other drivers. The Driver Education program will provide each student with the knowledge and skills to be a safe and confident driver.

*Dr. Nicole Stommel, Department Head
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DRIVER EDUCATION DE427/DE428

Either Semester - .25 Credit – Elective – 10, 11, 12

Prerequisite: Driver Education is available to students who are at least 15 years old, have obtained sophomore status, and have earned a passing grade in at least eight semester courses during the previous two semesters prior to enrolling.

Fees: Student driving permit \$20 (Secretary of State) Driver Education fee: \$275. The \$275 fee must be paid in full by the last day of registration. Those who pay after the deadline will be put on a waitlist. –

Course Description: Driver Education is made up of two phases: classroom (minimum of 30 hours) and behind the wheel (minimum of 6 hours). Both phases must be successfully completed in order to obtain an Illinois driver’s license prior to the age of 18. In order to participate in behind the wheel (BTW), students must adhere to the fee and permit deadlines mailed home in the permit packet approximately one month prior to the start date of the course. Students who do not adhere to the deadlines will be placed on a waiting list and are not guaranteed to participate in BTW. The behind-the-wheel fee will be refunded if the student does not participate. NOTE: Driver Education make-up is offered only during Summer School.

INSTRUCTIONAL DRIVER EDUCATION DE425/DE426

Either Semester - .25 Credit – Elective - 10, 11, 12

Prerequisite: By placement only

Fees: Student Driving Permit \$20 (Secretary of State). Driver Education fee: \$275

Course Description: Same as Driver Education



ENGLISH AND READING

As adults, today's students will encounter tremendous change during their lifetime. Our goal in the English and Reading Department is to help students refine skills that will allow them to meet and adapt to an American culture that science, technology, business and the media reshape daily. We also want to instill a love of learning and an appreciation of the world around them. Therefore, we believe that students must think, read, speak, and write at more than a functional level; they must do so at a creative and critical one that will give them an independence of mind and a freedom of spirit.

*Michael Blades, Department Head
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ENGLISH SEMESTER GENRE STUDY

The following courses are offered for .50 credit to Seniors as Comp. or Lit. Credit, to Juniors as elective credit, or Seniors as Core Elective Credit. These courses may be taken in either the 1st or 2nd Semester. Additionally, by the end of the semester, students will have compiled a teacher-approved portfolio to help them gain entry into the world of college-level writing. The composition requirements for each of the following courses are identical and align with our mission to prepare students for post-secondary education.

SENIOR YEAR REQUIREMENTS

All students must earn 1 credit of English during their senior year, half of which must consist of an approved Literature (Lit.) course and an approved Composition (Comp.) course. To fulfill this requirement, students may elect to take one year-long course or an approved combination of semester courses.

NOTE: All Elective courses do not meet the senior English requirement and may only count for core Elective credit.

ENGLISH 1

EN127 – NCAA

All Year – 1 Credit – 9

Prerequisite: Placement

Fees: Paperback Texts/Workbooks

Summer Reading Required

Course Description: This course introduces the fundamental skills of effective written and oral communication with an emphasis on college readiness. Coursework focuses on style, structure, and language appropriate for various purposes and audiences. Students are actively involved in research methodology and literacy development. They review and expand upon basic grammar and usage, study vocabulary, read selected fiction and nonfiction texts, and use technology to develop multimedia products and presentations.

HONORS ENGLISH 1

EN129 – NCAA

All Year – 1 Credit (Grade Weighted) – 9

Prerequisite: Placement

Fees: Paperback Texts/Workbooks

Summer Reading Required

Course Description: This course is an accelerated and enhanced approach to English 1. Coursework focuses on style, structure, and language appropriate for various purposes and audiences. Students are actively involved in research methodology and literacy development. They review and expand upon basic grammar and usage, study vocabulary, read selected fiction and nonfiction texts, and use technology to develop multimedia products and presentations.

ENGLISH 1 EXTENSION

RD191

All Year – No Credit – Elective – 9**Prerequisite:** Students are assigned according to their English grade and/or teacher recommendation.**Course Description:** This course is designed to be taken concurrently with English 1. English 1 Extension will focus on supporting and developing problem solving and content area skills to help students be successful in English 1. Students will be placed into English 1 Extension based on teacher recommendation and student performance in English 1 at any time during the school year. The student may exit the course at any time during the semester by demonstrating proficiency in their English 1 course and teacher recommendation.**ENGLISH 2**

EN133 – NCAA

All Year – 1 Credit – 10**Prerequisite:** Placement**Fees:** Paperback Texts/Workbooks**Summer Reading Required****Course Description:** This course introduces students to world literature through the study of its traditions, techniques, and genres. Students investigate how past world beliefs and values have influenced our culture today. The course emphasizes extensive instruction in the writing process in which students produce a variety of paragraphs, essays, journals, and other forms of writing. Students build upon grammar and vocabulary from their freshman English course. This course also incorporates a study of humanities as a means of investigating world literature.**HONORS ENGLISH 2**

EN135 – NCAA

All Year – 1 Credit (Grade Weighted) – 10**Prerequisite:** Placement**Fees:** Paperback Texts/Workbooks**Summer Reading Required****Course Description:** This course offers students an accelerated and enhanced examination of world literature through the study of its traditions, techniques, and genres. Students investigate how past world beliefs and values have influenced our culture today. The course emphasizes extensive instruction in the writing process in which students produce a variety of paragraphs, essays, journals, and other forms of writing. Students build upon grammar and vocabulary from their freshman English course. This course also incorporates a study of humanities as a means of investigating world literature.**AMERICAN LITERATURE AND COMPOSITION**

EN136 – NCAA

All Year – 1 Credit – 11**Prerequisite:** Placement**Fees:** Paperback Texts/Workbooks**Summer Reading Required****Course Description:** In this course, students explore and analyze a presentation of the traditions, techniques, and genres of American literature. The course emphasizes writing and offers targeted instruction in the writing process. In addition, the curriculum includes usage and mechanics, analytical reading techniques, rhetorical analysis, and vocabulary development. This course is designed for students who need additional support to further hone their reading and writing skills.**ADVANCED AMERICAN LITERATURE AND COMPOSITION**

EN137 – NCAA

All Year – 1 Credit – 11**Prerequisite:** Placement**Fees:** Paperback Texts/Workbooks**Summer Reading Required****Course Description:** This course offers students the opportunity to explore and analyze the traditions, techniques, and genres of American literature. The course emphasizes writing and offers extensive instruction in the writing process. In addition, the curriculum includes usage and mechanics, analytical reading techniques, rhetorical analysis, and vocabulary development.

AP ENGLISH LANGUAGE AND COMPOSITION

EN112 – NCAA

All Year – 1 Credit (Grade Weighted) – 11

Prerequisite: See page 9.

Fees: Paperback texts required. See page 9 for AP Examination requirement at no cost.

Summer Reading Required

Course Description: This college level course focuses on an in-depth study of various literary genre and critical/analytical writing. Entering students should be competent writers and responsible workers since fewer grades will occur. Regularly assigned timed writings, formal compositions, research projects, and active reading will be used to stimulate the kind of thinking and writing that will prepare students for the Advanced Placement English Language and Composition Exam given each May. This is the most challenging course in the Junior English program. Students who receive a 4 or 5 on the AP Exam typically receive credit for both semesters of freshman college English. Depending on the college, students may receive from 3 to 9 hours of English credit. Preparation for the ACT & SAT exams are emphasized.

CONTEMPORARY TEXTS AND COMPOSITION

EN145 – NCAA

All Year – 1 Lit. and Comp. Credit – 12

Prerequisite: Successful completion of three years of English and junior teacher recommendation.

Fees: Paperback texts.

Summer Reading Required

Course Description: This course will focus on developing writing skills in order to prepare students for college. Students will analyze contemporary texts (novels, short stories, poetry, pictures, videos, etc.) from a variety of sources and cultural viewpoints in order to enhance their understanding of the world around them and better understand one another. The texts will predominantly span from 1950 to the present as the course will examine how the post-World War II world is structured and what this structure says about the way that we deal with other cultures and form our identities. This course will also stress advanced composition techniques, strategies, and formats.

AP ENGLISH LITERATURE AND COMPOSITION

EN116 – NCAA

All Year –1 Lit. and Comp. Credit (Grade Weighted) – 12

Prerequisite: Grade of “C” or better in AP Language and Composition *OR* Teacher Recommendation. Approval by Division Chair.

Fees: Paperback texts required. See page 9 for AP Examination requirement at no cost.

Summer Reading Required

Course Description: While teaching those skills necessary to do well on the Advanced Placement English Literature and Composition Exam, AP refines the knowledge and skills for thinking and decision-making. This college level course examines a wide range of American, British and world literature and requires students to write analytical papers about their readings. The class refines skills in writing, research procedures and critical reading. Teachers use open inquiry and Socratic methods. Generally, AP develops those skills necessary for college and professional success. Students who receive a 4 or 5 on the AP Exam typically receive credit for both semesters of freshman college English. Depending on the college, students may receive from 3 to 9 hours of English credit.

ENGLISH ELECTIVE PROGRAM

The English Elective Program is designed for those students who enjoy Language Arts activities such as reading and writing.

Students are strongly encouraged to discuss elective options with their current English teacher so they can choose appropriately and be prepared for the highly specialized nature and more mature reading and writing levels expected in these courses. Electives not listed for sophomores can be taken with Division Chair approval.

Please note that any elective course that satisfies the fourth-year graduation requirement for English fulfills that requirement only if taken during the student’s senior year. If taken during the freshman, sophomore, or junior year, the course will only count as an elective credit.

DUAL CREDIT ENGLISH COMPOSITION I

DC404

Either Semester – .50 Credit (Grade Weighted) – Elective or Comp. – 12.

3 college credits and .5 high school grade weighting available for eligible students.

Prerequisite: A score of 470 or above on the Evidence Based Reading and Writing section of the SAT/PSAT *OR* Top 1/3 of class after 6 semesters of high school *OR* Unweighted cumulative GPA 3.0 or above after 5 semesters.

Course Description: This course is designed to help students develop their competence in college-level writing and in the analysis of texts so they can enter the dialogue of the academic community. This course includes the analysis and practice of argument and the use of critical thinking to read, analyze, and produce college-level texts.

JOURNALISM

EN117

All Year – 1 Credit– Elective – 9, 10, 11, 12 Comp. – 12.

Prerequisite: “B” average in previous high school or junior high English courses.

Helpful Courses: Yearbook, Printing, Computer Tech

Summer Reading required if taken for a Comp. credit during semester 1 of senior year.

Course Description: This course is the study of print media with a strong emphasis on news style. Students build specialized skills in news, features, editorial, and sports writing. They also work with layout and photography. Students in this class produce all issues of the school newspaper which may require additional time after school to meet deadlines. Therefore, *students enrolled in this course must be interested in what is happening in and around the school.* Students may take this course a second time for elective credit with the Journalism teacher’s approval. This course counts as an elective if taken freshman, sophomore, or junior year.

INTRODUCTION TO YEARBOOK

EN118

All Year – 1 Credit – Elective – 9, 10, 11, 12 – Lab Course. Does not fulfill senior year English requirement.

Prerequisite: “B” average in previous high school or junior high school English courses and recommendation from their current English teacher.

Helpful Courses: Journalism, Photography, Computer Tech, and Creative Writing

Course Description: This course is designed to expose students to the world of publishing by producing the ZBTHS yearbook, the *Nor’Easter*. Students learn the fundamentals of layout and design, photography, editing, and marketing. *Students enrolled in this course must have strong writing skills and a sincere interest in school activities and events. Additional time after school may be required to meet plant deadlines; therefore, students must have good attendance, be responsible, and be self-motivated.* Semester grades are based on the student’s ability to meet deadlines and submit pages that meet established publishing standards. This course counts as an elective credit only.

ADVANCED YEARBOOK

EN119

All Year – 1 Credit – Elective – 10, 11, 12

Lab Course. Does not fulfill senior year English requirement.

Prerequisite: “B” average in previous high school English classes. Must complete an application, have successfully completed a full year of Introduction to Yearbook, and have the recommendation of their Yearbook teacher.

Helpful Courses: Journalism, Photography, Computer Tech, and Creative Writing

Course Description: This course is designed for students with experience in yearbook production. It continues the study of publishing through production of the ZBTHS yearbook, the *Nor’Easter*. Students refine their skills in designing page layout and writing feature stories for the yearbook. *Students enrolled in this course must be self-motivated with the ability to work efficiently with less experienced students in order to produce an accurate record of school life at ZBTHS. They also must be able to spend out-of-class time working on the Nor’easter. Finally, students enrolled in this course are expected to take on the role of editor and be responsible for the cohesiveness of a section in the yearbook.* This course counts as an elective credit only. Students may repeat this course for elective credit with the Yearbook teacher’s approval.

CREATIVE WRITING 1

EN1201/EN1203 – NCAA

Either Semester – .50 Credit – Elective 10, 11, 12 Comp. – 12.

Summer Reading required if taken for a Comp. credit during semester 1 of senior year

Course Description: In this course, students develop an awareness of the quality of the human experience through creative writing in a writer’s workshop setting. Fiction, nonfiction, poetry, and personal essays are among a variety of genres in which the students write. This course counts as an elective if taken junior year.

CREATIVE WRITING 2

EN121 – NCAA

Either Semester – .50 Credit – Elective 10, 11, 12 Comp. – 12.

Prerequisite: Successful completion of Creative Writing 1.

Summer Reading required if taken for a Comp. credit during semester 1 of senior year

Course Description: In this course, students develop advanced creative writing skills that build upon and extend those developed in Creative Writing 1. Special emphasis is placed on writing for specific audiences and for basic and sophisticated understandings. Students also develop their own material to present in a writer's workshop setting. Units of study include philosophies of editing in all genres, children's stories, and a unit of independent study to be determined by the student and the teacher. This course counts as an elective if taken junior year.

PUBLIC SPEAKING

EN123 – NCAA

Either Semester – .50 Credit – Elective –11, 12 – Comp. – 12.

Summer Reading required if taken for a Comp. credit during semester 1 of senior year

Course Description: Public Speaking is a one-semester course in which students study all aspects of the communication process while building confidence and poise. Special emphasis is placed on controlling stage fright. Through the preparation, delivery, and critical analysis of speeches, presentations, and other performances, students develop effective speaking and listening skills for a variety of situations. This course is excellent preparation for a freshman college speech class. This course counts as an elective if taken junior year.

MYTHOLOGY AND COMPOSITION

EN130 – NCAA

Either Semester – .50 Credit – Elective – 11, 12 – Lit. or Comp. – 12.

Summer Reading required if taken for a Lit. or Comp. credit during semester 1 of senior year

Course Description: This course introduces the various elements of myths and legends in a multicultural setting. The class will, from week to week, study lore from all over the globe throughout many different time periods. This course will also stress advanced composition techniques, strategies, and formats, and there will be a number of opportunities for learning key English reading and writing skills such as research projects, formal presentations, outside novel reading, and analytical essay composition. This course is both very engaging in its content as well as innovative in its approach. It is an excellent opportunity to explore the story-telling traditions of the world. This course counts as an elective if taken junior year.

THE BIBLE AS LITERATURE AND COMPOSITION

EN131

Either Semester – .50 Credit – Elective – 11, 12. Lit. or Comp. – 12.

Summer Reading required if taken for a Lit. or Comp. credit during semester 1 of senior year

Course Description: This course is designed as a study of the Bible *as* literature and the Bible *in* literature. It is an academic study of selected narratives, characters, discourses, proverbs, and poetry from the Old Testament and New Testament. Students will engage in literary analysis of the Bible and learn important character themes and motifs that are essential for understanding a variety of other Western literature. Students will further explore the impact that translations of the Bible have had on the English language and the Bible's influence on Western culture. This course will also stress advanced composition techniques, strategies, and formats. This course counts as an elective if taken junior year.

AFRICAN LITERATURE AND COMPOSITION

EN125 – NCAA

Either Semester – .50 Credit – Elective – 11, 12. Lit. or Comp. – 12.

Summer Reading required if taken for a Lit. or Comp. credit during semester 1 of senior year

Course Description: African Literature is a one-semester survey course that focuses on the diverse writers and voices of Africa. Through the study of poetry, short stories, novels and nonfiction, students will gain a global perspective of the world and develop deeper understanding of Africa's story from pre-colonial through modern times. Due to the broad scope of the continent, the curriculum for this course will pay special attention to areas of American settlements in West Africa and the multicultural rainbow nation of South Africa. This course will also stress advanced composition techniques, strategies, and formats. This course counts as an elective if taken junior year.

LATINX LITERATURE AND COMPOSITION

EN140 – NCAA

Either Semester – .50 Credit – Elective – 11, 12. Lit. or Comp. – 12.

Summer Reading required if taken for a Lit. or Comp. credit during semester 1 of senior year

Course Description: Latinx Literature and Composition is a one-semester survey course that focuses on the diverse writers and voices of the Latinx diaspora. Through the study of poetry, short stories, novels and nonfiction, students will gain a global perspective of the world and develop a deeper understanding of Latinx experiences both in the United States and abroad. This course will also stress advanced composition techniques, strategies, and formats. This course counts as an elective if taken junior year.

INTRODUCTION TO TEACHING

ENG147

Either Semester - .50 Credit - Elective –11, 12.

Prerequisite: Division Chair approval.

Course Description: This course provides the prospective teacher with an introduction to teaching in the United States school systems. This course will provide students considering the teaching profession exposure to best practices in education coupled with practical pre-teaching experiences. Students should expect to engage critically with the course content, reading and writing to sources, observing and analyzing practice, creating a lesson utilizing effective teaching practices, and regularly reflecting on experiences.

HEALTH AND PHYSICAL EDUCATION

Webster’s Dictionary defines health as a “state of physical and mental wellbeing, a condition of body or mind.” It is because we feel a healthy body is a prerequisite for participation in and enjoyment of the many activities provided by the school and society that we place a high value upon our Health and Physical Education Programs. The state of Illinois echoes the importance of these subjects by including successful completion of both Health and Physical Education coursework in all public school graduation requirements.

Our concern goes beyond that of physical conditioning alone. It extends to the development of and appreciation of activity as a means of reducing tensions inherent in a highly technical and swift-moving society. It also encompasses the teaching of these types of recreational activities that will enable the individual to remain an active participant, rather than a passive spectator, in the years beyond one's high school experience.

Michael Wollney, Department Head
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IMPORTANT PE COURSE INFORMATION

Every physical education course fulfills .50 credit of the 3.0 graduation requirement.

In all regular physical education classes instructional swimming and physical fitness testing are required.

FRESHMAN FITNESS ORIENTATION

(Male) PE4011/PE4013 - (Female) PE4021/PE4023

Either Semester - .50 Credit – Required 9

Fees: Students must purchase an approved physical education uniform and padlock.

Course Description: The purpose of this course is to promote health and wellness as a way of life. Emphasis will be placed on creating a healthy lifestyle. Topical areas will include: fitness development, aquatics, stress management, nutrition, and body systems. Activities will focus on intellectual as well as physical development allowing for the development of total wellness.

PHYSICAL EDUCATION 2

PE4031/PE4033

Either Semester - .50 Credit – Required 10

Fees: Proper physical education uniform and padlock required.

Course Description: Progression of fitness components and skill development through emphasis on physical fitness, individual and team activities as well as swimming in a health club fashion.

PHYSICAL EDUCATION 3 AND 4

PE4071/PE4073

Required Both Semesters - .50 Credit per semester – 11, 12

Fees: Proper physical education uniform and padlock required.

Course Description: In this junior and senior course the emphasis shifts from mass group activities to individual or carry-over activities. The majority of the program will emphasize fitness and individual sports, although some team sports and swimming will be offered in a health club fashion.

MODIFIED PHYSICAL EDUCATION

PE4181/PE4183

Either Semester - .50 Credit - 9, 10, 11, 12

Prerequisite: Placement

Course Description: This course is designed to meet the needs of students who cannot handle the physical demands of a regular-paced physical education class and/or would benefit from more individualized attention. The emphasis will be on improving conditioning and lifetime activities as deemed appropriate for the student's physical condition. This course satisfies graduation requirements.

INTEGRATED PHYSICAL EDUCATION - S

PE4301/PE4303

Either or Both Semesters -.50 Credit – 10, 11, 12

Prerequisite: Placement – Instructor approval required. Also, must be able to swim.

Course Description: Integrated physical education is designed for students in the Supported Instructional Program (SIP) and for sophomores, juniors, and seniors who are thinking about becoming teachers and/or plan on working with people with disabilities. Sophomore, junior and senior classmates will act as student leaders for their assigned peer students Health enrolled in this course. Student leaders will provide assistance to their peer student before, during, and after class. Activities are designed to aid the peer student in the development of social skills, personal hygiene, physical fitness, aquatic skills, and individual and team game concepts.

INTEGRATED PHYSICAL EDUCATION - E

PE4311/PE4313

Either or Both Semesters -.50 Credit – 10, 11, 12

Prerequisite: Pass Integrated PE 1 with an “A” or with instructor approval.

Course Description: Integrated PE 2 is designed for students in Educational Life Skills (ELS) and sophomores, juniors, or seniors who are thinking about becoming teachers and/or plan on working with students with special needs. The leaders in this class will help their partners on a daily basis with activities, fitness, or games. These activities are designed to aid the partners in developing social skills, personal hygiene, physical activity, and work on individual and team game concepts.

HEALTH

PE422

Either Semester - .50 Credit - 9, 10, 11, 12

Course Description: Health is a wellness-based class that offers students an opportunity to improve and maintain their health status both by increasing their health literacy and developing life-long healthy habits. Students will cultivate and utilize College Readiness academic skills as they learn factual information to help them develop healthy behaviors. Topics include wellness, character development, personality development, emotional development, nutrition, nutrition, body composition and weight management, mental health, managing stress and anxiety, mental disorders, effective communication, family crises, abstinence and relationships, reproductive systems, the life cycle, sexually transmitted infections and HIV/AIDS, sexual assault awareness, the Safe Haven Law, infections and non-infectious diseases, tobacco, alcohol, and medicines and drugs.

PE LEADERS

PE4401

All Year - 1 Credit –11, 12

Prerequisite: Teacher Recommendation

Course Description: This is a course that fulfills all of the state standards required in the core physical education program. Additionally, students will be taught leadership techniques (including problem solving, decision making, and understanding group dynamics), will be given the opportunity to practice these skills, and will model these skills while working with their peers in one-on-one and small/large group settings.

ADVENTURE EDUCATION

PE4211/PE4213

Either Semester - .50 Credit – 11, 12

Prerequisite: Instructor approval required

Fees: Required fees for field/camping trips and materials. Proper PE uniform and padlock required.

Course Description: This course is for juniors and seniors willing to work with others in a team oriented atmosphere. A variety of activities will be used to improve the student's self-esteem, their ability to take risks, improve the student's ability to cooperate and work well with others through the use of Adventure Education, challenge activities, camping/outdoor skills, physical fitness, swimming, rock climbing, rappelling, and community service. The physical fitness component will be strenuous as it will include rock climbing, high ropes, running, muscular strength and muscular endurance.

Note: This course may be taken up to 2 semesters (for regular students) to 3 semesters (for student leaders).

ATHLETIC TRAINING

PE4141/PE4143

Either Semester - .50 Credit – Elective – 10, 11, 12 (**Not an activity based class.** WILL NOT MEET P.E. Graduation Requirement)

Prerequisite: Students must have a strong interest in a medical field and commitment to hours outside of the academic day working with Zion-Benton Athletics. Academically strong students will be required to study anatomy and physiology.

Fees: An optional fee for any student wishing to receive an American Red Cross certificate for CPR & AED.

Course Description: Students will develop a broad knowledge of Athletic Training. This course will provide a stepping-stone and strong base of knowledge for those students who will pursue a career in the medical field. Topics will also include: basic first aid, CPR certification, injury recognition, basic knowledge in care and evaluation of injuries, assisting in rehabilitation programs set up by certified staff, and taping and bandaging techniques. Students enrolled in this course are required to complete 20 hours of field experience.

STRENGTH TRAINING AND CONDITIONING

PE4291/PE4293

Either Semester - .50 Credit – 11, 12

Fees: Proper P.E. uniform and padlock required.

Course Description: This course is designed for students willing to work as individuals to improve overall fitness and muscular strength. Daily workouts may include but are not limited to: resistance training with universal weights; free weights; medicine balls; resistance tubing; body bars and isometrics. Other workouts may include: aerobic activity; circuit training; plyometrics; aquatic training; and running and flexibility. Discussions covering heart rate, nutrition, proper hydration, specificity, overload, progressive resistive exercise principles, and safety rules and guidelines in the weight room will be covered. This course is designed for all junior and senior students regardless of current fitness levels or athletic ability.

Note: This course may be taken up to two semesters.

LIFEGUARD TRAINING

PE4111/PE4113

Either Semester - .50 Credit – 10, 11, 12

Prerequisite: Students must be 15 years of age and have sophomore, junior, or senior status on or before the scheduled beginning of the class. The course may only be repeated once. Instructor approval is required. Students must be able to do the following:

- (1) Swim 300 yards continuously using these strokes in the following order: (a.) 100 yards of front crawl using rhythmic breathing and a stabilizing, propellant kick. Rhythmic breathing can be performed either by breathing to the side for front crawl or the front for breaststroke. (b.) 100 yards breaststroke (c.) 100 yards of either front crawl using rhythmic breathing or breaststroke. These 100 yards may be a mixture of front crawl and breaststroke. Note: There is no time requirement for this skill. Prospective participants must show only that they can swim 300 yards using the above strokes without stopping.
- (2) Swim 20 yards using the front crawl or breaststroke, surface dive to a depth of 7 – 10 feet, retrieve a 10 lb. brick, return to the surface, and swim 20 yards back to the starting point with the brick. This test must be completed in 1 minute 40 seconds.

Fees: Approximately \$55 for supplies (CPR Mask/Whistle/Lanyard) and the student Lifeguarding Manual. There is also an additional, optional fee for students who would like to receive a Lifeguard certificate from the American Red Cross.

Course Description: The course consists of professional life guarding and injury prevention, patron surveillance and emergency preparation, water rescue skills, breathing emergencies, cardiac emergencies, first aid, caring for head spinal

injury, skills scenarios, and written examinations for each area. Upon completion and satisfactory performance on skills and written tests, the participant receives certification for lifeguard training, first aid, C.P.R. training, A.E.D. Defibrillation use, bag valve masks, and disease transmission.

LIFEGUARD SEMINAR

PE411

Either Semester - .50 Credit – 10, 11, 12

Prerequisite: Lifeguard certification and other related first aid credentials must be presented to the counselor at time of registration. The course may be repeated. Instructor approval is required.

Course Description: Students certified as lifeguards are responsible for guarding patrons at the aquatic center. Students must possess national lifeguard certification and be qualified in First Aid, CPR-PRO, and AED. Lifeguards complete records, reports, and a weekly mandatory in-service; monitor and communicate with patrons during assigned class period; set up materials and work with PE instructors as needed during assigned class period; and assist with clean-up as needed. Lifeguards must wear appropriate lifeguard attire with hip-pack; be capable of recognizing a swimmer in distress, active or passive drowning; remain professional at all times; and have the ability to stabilize head, neck, back due to a spinal injury.

WATER SAFETY INSTRUCTION

PE4121/PE4123

Either Semester - .50 Credit – 11, 12

Prerequisite: Recommendation by Aquatics Director, written exam of basic water safety knowledge, swimming skills test include the following: front crawl, back crawl, sidestroke, breaststroke, elementary backstroke, butterfly. Students must be 16 years of age and have junior or senior status on or before the beginning of class.

Fees: Students must purchase the Water Safety Instructor's Candidate Kit for approximately \$50. There is also an additional, optional fee for students who would like to receive a WSI certificate from the American Red Cross.

Course Description: This is a course designed to train instructor candidates to teach American Red Cross swimming and water safety courses. Successful completion will enable the student to teach the following courses: American Red Cross Swimming Courses, Levels 1 thru 6; Water Safety Instructor Aide; Infant and PreSchool Aquatics; Community Water Safety; Safety Training for Swim Coaches. Students will write block and lesson plans, learn various teaching and instructional methods, safety precautions, dealing with cultural diversities, teaching those with disabilities, student teaching experience in the ZBTHS Physical Education Classes, and Saturday Learn to Swim Program for Children, when available. May only be repeated once.



MATHEMATICS

The Zion-Benton Township High School Mathematics Department believes in providing students with opportunities to develop the skills necessary to live and work productively as well as to provide the strong background needed to pursue future mathematics studies. The department's offerings provide options for meeting the individual needs and goals of a broad range of students.

Courses offered within the Mathematics Department help students learn challenging mathematical ideas through the implementation of the Common Core State Standards and the Common Core Math Practices below.

Common Core Math Practices

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning.

The sequential nature of mathematics education requires a strict interpretation of course prerequisites. It would be to the student's advantage to have earned a grade of "C" or better to advance to the next level. The ZBTHS graduation requirement is three years of mathematics. However, it is strongly recommended that college-bound students have four years of high school mathematics credit.

In order to provide access to higher levels of mathematical thinking, we require each student to purchase their own TI-84 Plus Graphing Calculator for all courses.

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MATH 1 EXTENSION

MA163

All Year – No Credit - 9

Prerequisite: Placement

Fees: A TI-84 Plus Graphing Calculator is required.

Course Description: This course is designed to be taken concurrently with Math 1. Math 1 Extension will focus on supporting and developing problem solving and content area skills to help students be successful in Math 1. Students will be placed into Math 1 Extension based on teacher recommendation and student performance in Math 1 at any time throughout the semester. The student may also exit the course at any time throughout the semester by demonstrating proficiency in their Math 1 course and teacher recommendation.

MATH 1

MA164 - NCAA

All Year - 1 Credit - 9

Fees: A TI-84 Plus Graphing Calculator is required.

Course Description: This course integrates the foundational concepts of algebra, geometry, and statistics. In this course, students will focus on linear and exponential relationships as well as geometric relationships. Major concepts include representing/analyzing data, solving linear equations and inequalities, graphing linear and exponential functions, transformational geometry, congruence, and angle relationships.

MATH 1 HONORS

MA165 – NCAA

All Year - 1 Credit (Grade Weighted) – 9

Prerequisite: Placement

Fees: A TI-84 Plus Graphing Calculator is required.

Course Description: Math 1 Honors has similar topics to Math 1, but involves deeper investigation into mathematical concepts and principles. This course integrates the foundational concepts of algebra, geometry, and statistics. In this course, students will focus on linear and exponential relationships as well as geometric relationships. Major concepts include representing/analyzing data, solving linear equations and inequalities, graphing linear and exponential functions, transformational geometry, congruence, and angle relationships.

MATH 2 EXTENSION

MA142

All Year - 1 Math Elective Credit - 10**Prerequisite:** Placement**Fees:** A TI-84 Plus Graphing Calculator is required.**Course Description:** This course is designed to be taken concurrently with Math 2. It will focus on correcting student misconceptions about mathematics that will hinder student understanding of higher mathematical concepts. Students in this course will receive additional support on the topics presented in Math 2.**MATH 2**

MA140 – NCAA

All Year - 1 Credit - 10**Prerequisite:** Math 1, Math 1 Honors, or Placement.**Fees:** A TI-84 Plus Graphing Calculator is required.**Course Description:** This course is designed to develop a deeper understanding of the foundational concepts of algebra, geometry, and probability. In this course students will extend their knowledge from Math 1 to quadratic models. Other major concepts include rational exponents, similarity, right triangle trigonometry, probability, volume, and properties of circles.**MATH 2 HONORS**

MA141 – NCAA

All Year - 1 Credit (Grade Weighted) – 9, 10**Prerequisites:** Math 1/Math 1 Honors with teacher recommendation, passing score on Math 1 Exit exam required.**Fees:** A TI-84 Plus Graphing Calculator is required.**Course Description:** This course is designed to develop a deeper understanding of the foundational concepts of algebra, geometry, and probability. In this course students will extend their knowledge from Math 1 to quadratic models. Other major concepts include rational exponents, similarity, right triangle trigonometry, probability, volume, and properties of circles. This course is designed for students who exhibit a desire and ability to work through an intensified and accelerated program.**MATH 3**

MA150 – NCAA

All Year - 1 Credit – 10, 11**Prerequisites:** Math 2 or Math 2 Honors.**Fees:** TI-84 Plus Graphing Calculator is required.**Course Description:** This course is designed to develop a deeper understanding of the underlying concepts of algebra, geometry and statistics. As the third course in the integrated sequence, this course will afford the student opportunities for engaging in activities that will facilitate the transition to more abstract ways of thinking. Units include: exponential and logarithmic functions, polynomials, circles and trigonometry, applied geometry, and inferential statistics.**MATH 3 HONORS**

MA151 – NCAA

All Year - 1 Credit (Grade Weighted) – 10, 11**Prerequisites:** Math 2/Math 2 Honors with teacher recommendation.**Fees:** TI-84 Plus Graphing Calculator is required.**Course Description:** Math 3 Honors has similar topics to Math 3, but involves deeper investigation into the mathematical concepts and principles of algebra, geometry, and statistics. As the third course in the integrated sequence, this course will afford the student opportunities for engaging in activities that will facilitate the transition to more abstract ways of thinking. Units include: exponential and logarithmic functions, polynomials, circles and trigonometry, applied geometry, and inferential statistics.**TRANSITIONAL MATH**

MA146

All Year - 1 Senior Elective Credit – 12**Prerequisite:** Passing grades in both semesters of Math 1, Math 2, and Math 3.**Fees:** Material Fees TBA**Course Description:** Students earning a C or higher in this course will automatically be placed into a credit-bearing general education math course in any Illinois community college and participating four-year universities (avoiding remedial mathematics in the Quantitative Literacy/Statistics pathway).

This course focuses on developing mathematical maturity through problem solving, critical thinking, data analysis, and the writing and communication of mathematics. Students will develop conceptual and procedural tools that support the

use of key mathematical concepts in a variety of contexts. Instruction will emphasize the connections between verbal, numerical, symbolic, and graphical representation of the concepts being taught. Emphasis will be placed on modeling and problem solving, with techniques and manipulations covered in context. The three strands for the course are Algebra, functions, and modeling as they apply to linear, polynomial, rational, and exponential expressions, equations, and functions.

APPLIED MATHEMATICS 1

DC405

Either Semester - .5 Senior Core Elective Credit – 12. Potential for 3.0 College of Lake County Credits.

Prerequisite: Passing grades in both semesters of Math 1, Math 2, and Math 3.

Fees: TI-84 Plus Graphing Calculator is *required*

Course Description: This dual credit course offers students who plan to pursue a variety of career pathways at CLC an opportunity to successfully complete a required or general education course. It does not, however, serve as a dual-credit bearing course should students select a General Education program or STEM program at CLC. Basic principles of mathematics are studied, with applications to trade problems. Review of fractions, decimals, ratios, proportions, and percent. Introductory algebra, practical geometry, measuring systems, precision, accuracy, and scientific notation.

PRE-CALCULUS

MA160 – NCAA

All Year - 1 Credit – 11, 12

Prerequisite: Math 3

Fees: TI-84 Plus Graphing Calculator is *required*.

Course Description: This course provides a foundation for advanced mathematics and builds on material learned in Math 3. Content includes matrices, functions (exponential, logarithmic, trigonometric, piecewise, and step), rational expressions/equations/functions, trigonometric relationships and equations, and limits.

PRE-CALCULUS HONORS

MA162 – NCAA

All Year - 1 Credit (Grade Weighted) – 11, 12

Prerequisite: Math 3 Honors or Math 3 with teacher recommendation.

Fees: TI-84 Plus Graphing Calculator is *required*.

Course Description: This course provides a pathway to advanced mathematics, specifically AP Calculus AB/BC. Students will engage in learning that builds on material in Math 3 Honors. Content includes matrices, functions (exponential, logarithmic, trigonometric, piecewise, and step), rational expressions/equations/functions, trigonometric relationships and equations, and limits.

AP CALCULUS AB/BC

MA161 – NCAA

All Year - 1 Credit (Grade Weighted) – 11, 12

Prerequisite: Pre-Calculus Honors, Department Chair Approval for AP Calculus BC

Fees: See page 9 for A.P. examination requirement at no cost. TI-84 Plus Graphing Calculator is required.

Course Description: Students will explore the concepts, methods, and applications of differential and integral calculus. Units of study include: limits and continuity, differentiation, applications of differentiation, integration, differential equations, and applications of integration. Students enrolled in BC will work self-paced, following the College Board curriculum, and will extend their learning to include topics such as parametric, polar, and vector functions, and series. This course will prepare students for the AP Calculus test (AB or BC).

AP COMPUTER SCIENCE PRINCIPLES

MA175 – NCAA

All Year - 1 Credit (Grade Weighted) – 10, 11, 12

Prerequisite: See page 9.

Fees: See page 9 for A.P. examination requirement at no cost.

Course Description: This is an introductory AP course designed to broaden participation in the field of computer science. Students will be introduced to the creative aspects of programming, abstractions, algorithms, large data sets, the internet, cyber security concerns, and computing impacts. Students will be given the opportunity to use technology to address real-world problems and build relevant solutions.

AP STATISTICS

MA182 – NCAA

All Year – 1 Credit (Grade Weighted) – 12

Prerequisite: See page 9.

Fees: TI-84 Plus Graphing Calculator is *required*. See page 9 for AP examination requirement at no cost.

Course Description: The purpose of this course is to provide students with tools for collecting, analyzing and drawing conclusions from raw data. Students will learn the concepts of randomness, probability, anticipating patterns and statistical inference in addition to the proper techniques necessary to plan a study. The goal of the course is to have all students earn a grade of a three or higher on the AP Exam.

NAVAL JUNIOR RESERVE OFFICER TRAINING CORP (NJROTC)

The NJROTC Program is a four-year program conducted to provide an opportunity for secondary school students. (freshmen through seniors) to learn the basic elements and requirements for national security and their personal obligation as Americans. The specific objectives of NJROTC are to:

- Promote patriotism
- Develop informed and responsible citizens
- Promote habits of orderliness and precision and develop respect for constituted authority
- Develop a high degree of personal honor, self-reliance, individual discipline and leadership

To participate in the program a student must:

- Be at least 14 years old and in grades 9 through 12
- Be of good moral character
- Be physical fit to participate in NJROTC training (a student is considered to meet this requirement if able to fully participate in the school physical education program)
- Comply with established personal grooming standards
- Wear uniforms on selected days

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EACH SEMESTER OF PARTICIPATION IN NAVAL SCIENCE A STUDENT MAY WAIVE ONE PHYSICAL EDUCATION GRADUATION REQUIREMENT.

NAVAL SCIENCE 1

NS530

All Year - 1 Credit - Elective - 9, 10, 11, 12

Prerequisite: Approval of instructor and parent permission.

Fees: Name Tag, NJROTC polo shirt, and t-shirt (Cost \$35).

Course Description: This course provides an introduction to the precepts of citizenship, the elements of leadership, and the value of scholarship in attaining life goals. The course is designed to engender a sound appreciation for the heritage and traditions of America. Included with the classroom instruction will be a weekly drill session to incorporate discipline, pride, and precision into the student's life and one day of physical fitness training.

NAVAL SCIENCE 2

NS531

All Year - 1 Credit - Elective – 10, 11, 12

Prerequisite: A passing grade in Naval Science I or recommendation of the Naval Science Instructor (NSI).

Course Description: This course is a continuation of leadership and citizenship training with emphasis on the role of sea power in world history. The principles of navigation, astronomy, climatology and basic seamanship are introduced during this year. Leadership opportunities in academic, drill and orienteering teams, as well as the color guard, increase as the student advances knowledge and gains greater responsibility. Included with the classroom instruction will be a weekly drill session to incorporate discipline, pride, and precision into the student's life and one day of physical fitness training.

NAVAL SCIENCE 3

NS532

All Year - 1 Credit - Elective – 11, 12

Prerequisite: Passing grade in Naval Science 2 or recommendation of the Naval Science Instructor (NSI).

Course Description: This course is a continuation of those disciplines introduced in Naval Science 1 and 2, with greater emphasis on increased leadership roles within the Cadet Corps. Naval Knowledge studies include Naval Operations, Naval Communications, Naval Intelligence, and Naval Law. Continued study in the areas of Shipboard Organization and Watches coupled with advanced seamanship are presented during this course. Included with the classroom instruction will be a weekly drill session to incorporate discipline, pride, and precision into the student's life and one day of physical fitness training.

NAVAL SCIENCE 4

NS533

All Year - 1 Credit - Elective - 12

Prerequisite: Passing grade in Naval Science 3, or approval of instructor and parent permission.

Course Description: This course is a continuation of advanced leadership concepts with emphasis on leadership by example. Leadership studies include: (1) Application of leadership qualities and principles, (2) Evaluation of Performance (3) Giving Instruction (4) Better and effective communication skills. This course will require the student to analyze, discuss and document various leadership scenarios and vignettes. All NS4 students will be assigned positions of responsibility in the Battalion organization, and will be expected to lead the Battalion throughout the year. Included with the classroom instruction will be a weekly drill session to incorporate discipline, pride, and precision into the student's life and one day of physical fitness training.

SCIENCE

The aim of science education is to develop in learners a rich and full understanding of the inquiry process; the key concepts and principles of life science, physical science, and earth and space sciences; and issues of science, understandings and their interactions with the natural world"- Illinois State Board of Education.

In our ever changing world, students need the skills necessary to evaluate and understand the wealth of new information that is created every day. The goal of the science program is to help students acquire content knowledge while increasing their scientific literacy skills. The science courses incorporate the three Dimensions of the Next Generation Science Standards: Science and Engineering Practices, Cross Cutting Concepts, and Disciplinary Core Ideas. Zion-Benton also strives to follow the NSTA's recommendation that 40 percent of science instruction time be spent in laboratory and hands-on activities.

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BIOLOGY

SC221 – NCAA

All Year - 1 Credit - 9

Prerequisites: Placement

Course Description: Students in this course will increase their knowledge of core biology concepts while engaging in science practices such as asking questions, carrying out investigations, interpreting data, using models to explain phenomena, and constructing explanations. The major themes covered by the course include structure/function, inheritance of traits, natural selection/evolution, and ecology. Students will engage in class discussion, participate in laboratory investigations, construct scientific explanations and obtain information through reading and interpreting scientific and technical text.

HONORS BIOLOGY

SC224 – NCAA

All Year - 1 Credit (Grade Weighted) – 9

Prerequisites: Placement

Course Description: Honors Biology is similar to Biology but at a more challenging pace and depth. Students in this course will increase their knowledge of core biology concepts while engaging in science practices such as asking questions, carrying out investigations, interpreting data, using models to explain phenomena, and constructing explanations. The major themes covered by the course include, structure/function, inheritance of traits, natural

selection/evolution, and ecology. Students will engage in class discussion, participate in laboratory investigations, construct scientific explanations and obtain information through reading and interpreting scientific and technical text.

CHEMISTRY

SC225 – NCAA

All Year - 1 Credit - 10

Prerequisites: Placement

Fees: Students need a scientific calculator for class.

Course Description: In Chemistry students will investigate fundamental chemistry concepts including, properties of matter, atomic structure, periodic trends, chemical bonding, energy, laws of conservation, pH, nuclear chemistry, and organic chemistry. The goals of the course are to integrate the study of mathematics (especially algebra) into chemistry, to improve problem-solving skills and reasoning ability. This course is designed for students needing additional support.

HONORS CHEMISTRY

SC227 – NCAA

All Year - 1 Credit (Grade Weighted) – 10

Prerequisites: Placement

Fees: Students need a scientific calculator for class.

Course Description: The content of this course is similar to that of Advanced Chemistry; however, students explore topics in greater depth and at a more challenging pace. Selected advanced topics in chemistry are added to challenge the science-oriented student with a strong math background. This is a lab based course where experiments will be performed and studied to further clarify chemical concepts studied in class.

EARTH SCIENCE

SC228 – NCAA Pending

All Year - 1 Credit – 11, 12

Prerequisites: Placement

Fees: Students need a scientific calculator for class.

Course Description: Earth Science is a course that collectively seeks an understanding of the earth and its environment in space. Students will explore the topics of oceanography, geology, astronomy, meteorology and geography. Students will have the opportunity to participate in laboratory investigations and simulations to gain personal experiences with the surroundings in which they live.

PHYSICS

SC215 – NCAA

All Year - 1 Credit – 11,12

Prerequisites: Placement

Fees: Students need a scientific calculator for class.

Course Description: In Physics students will investigate fundamental physics concepts including: velocity and acceleration, force, work and energy, momentum, geo-physics, optics, electricity, magnetism, and waves. The goals of the course are to integrate the study of mathematics (especially algebra) into physics to improve problem-solving skills and reasoning ability. This course is designed for students needing additional support.

ADVANCED PHYSICS

SC216 – NCAA

All Year - 1 Credit – 11, 12

Prerequisites: Placement

Fees: Students need a scientific calculator for class.

Course Description: Advanced Physics will address the same topics as Physics while focusing on a higher level of Science and Engineering Practices. In Advanced Physics students will investigate fundamental physics concepts including: velocity, acceleration, geo-physics, force, work, energy, momentum, optics, electricity, magnetism, and waves. The goals of the course are to integrate the study of mathematics (especially algebra and trigonometry) into physics to improve problem-solving skills and reasoning ability.

AP COURSES

All AP science courses, except AP Environmental Science and AP Physics C, require additional time for laboratory experiences; thus, one and one-half periods of class time is scheduled. **Students enrolled in AP courses may be assigned summer work that is to be completed before the start of the school year.** See page 9 regarding the Advanced Placement Program. Passing this course does not assure college credit; college credit depends on the score received on the AP Exam and the discretion of the college.

AP PHYSICS C

SC217 – NCAA

All Year - 1 Credit (Grade Weighted) – 11, 12

Prerequisites: See page 9

Fees: Scientific calculator required (approximately \$100). See page 9 for AP Examination requirement at no cost.

Course Description: This course is designed to be the equivalent of first semester freshman college physics. Students should be self-motivated and have good study habits. Nightly homework is very common. This course will further the student's knowledge of the physical world. While calculus will be needed for this course, any knowledge of calculus will be covered in class. Areas of study include: kinematics, dynamics including: rotating systems, and momentum and energy.

AP BIOLOGY

SC207 – NCAA

All Year - 1 Credit (Grade Weighted) – 11, 12

Prerequisites: See page 9.

Fees: See page 9 for AP Examination requirement at no cost.

Course Description: This course is designed to be equivalent to freshman college biology. A thorough presentation of the concepts of biology including laboratory investigations will be undertaken. Topics to be studied will include: microbiology, cell physiology, biochemistry, molecular genetics, and evolution.

AP CHEMISTRY

SC206 – NCAA

All Year - 1 Credit (Grade Weighted) – 11, 12

Prerequisites: See page 9.

Fees: Required materials—bound lab notebook, scientific calculator (approximately \$100). See page 9 for AP Examination requirement at no cost.

Course Description: This course is designed to be the equivalent of freshman college chemistry. Students are required to take the Advanced Placement Exam. Kinetics, thermodynamics, inorganic and organic chemistry, and reaction predictions are among the topics to be covered. Labs are scheduled an average of twice weekly. Occasionally students may be required to meet before or after school for additional lab preparation.

AP PHYSICS 2

SC210 – NCAA

All Year - 1 Credit (Grade Weighted) – 12

Prerequisites: See page 9.

Fees: Scientific calculator required (approximately \$100). See page 9 for AP Examination requirement at no cost.

Course Description: This course is designed to be the equivalent of second semester freshman college physics. Students should be self-motivated and have good study habits. This course will further the student's knowledge of the physical world. Electric and magnetic systems are studied in depth, as well as fluid and thermodynamics, optics, waves, and modern physics.

AP ENVIRONMENTAL SCIENCE

SC214-NCAA

All Year - 1 Credit (Grade Weighted) – 11, 12

Prerequisites: See page 9.

Fees: Minor costs of field trips. See page 9 for AP Examination requirement at no cost.

Course Description: The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. AP Environmental Science is interdisciplinary, embracing topics from geology, biology, physics, chemistry, math, and social sciences. Students are expected to engage in laboratory and fieldwork investigations and attend required field trips.

SCIENCE ELECTIVE PROGRAM

HUMAN ANATOMY & PHYSIOLOGY

SC218 – NCAA

Either Semester - .50 Credit – Elective – 11, 12

Course Description: This course is for those interested in science-related fields. Anatomy is a discussion and laboratory based study of the human body. The study will range from molecules, cells, body systems, and processes. Dissection of appropriate organs will compliment coursework. The course is designed for college preparation, especially for biology and health/medical career majors.

ASTRONOMY

SC212 – NCAA

Either Semester - .50 Credit – Elective – 11, 12

Course Description: This course is a one term introduction to astronomy, which covers the nature of science; sun, planets, and moons; origin of the solar system; nature and evolution of stars; exploding stars; stellar remnants, including white dwarfs, neutron stars, and black holes; extrasolar planetary systems; galaxies and quasars; dark matter and dark energy; the Big Bang and the fate of the universe; and life in the universe. This course includes lectures and observation. A possible field trip to Adler Planetarium may be required with nominal charge.

FORENSIC SCIENCE

SC213 – NCAA

Either Semester - .50 Credit – Elective – 11, 12

Fees: Minor costs of field trips.

Course Description: Forensic Science is the study of evidence and its use in a court of law. This course will investigate the following areas of forensic science: fingerprinting, DNA, toxicology, serology, blood spatter, ballistics, forgery, forensic psychology, and science in the courtroom. This course will involve all areas of science that are previously parts of the science curriculum with a concentration in chemistry and physics. This course will involve math skills of algebra, geometry, and trigonometry. Strong math skills are recommended.

ENVIRONMENTAL ECOLOGY 1

SC219 – NCAA

Either Semester – .50 Credit - Elective – 11, 12

Fees: Minor costs of field trips.

Course Description: Environmental Ecology will seek to understand the ecological principles necessary for human society to lessen its impact on the planet. Students will then apply this knowledge in determining technological and behavioral changes that societies could initiate to create a model for living sustainably in our environment. **Semester 1** will focus on ecology and field studies.

ENVIRONMENTAL ECOLOGY 2

SC220 – NCAA

Either Semester – .50 Credit - Elective – 11, 12

Fees: Minor costs of field trips.

Course Description: Environmental Ecology will seek to understand the ecological principles necessary for human society to lessen its impact on the planet. Students will then apply this knowledge in determining technological and behavioral changes that societies could initiate to create a model for living sustainably in our environment. Semester 2 will focus on the effects of both natural and human impacts on the environment and potential solutions through sustainable practices.

SCIENCE/TECHNOLOGY SEMINAR

TBA

Either Semester - .50 Credit - Elective - 10, 11, 12 - may be repeated for a total of one credit.

Prerequisite: Science Division Chair / Director of Technology approval, *by special permission only*. A written plan of study and an agreement with a teacher to serve as mentor must be completed.

Fees: Materials for project.

Course Description: Designed for students wishing to obtain specialized science / technology credit, help prepare classroom laboratory materials, and support technology. The plan of study may include an in-depth laboratory project in the area of study as well as a review of scientific literature to support the project.

FOR THE FOLLOWING COURSES, PLEASE SEE LAKE COUNTY TECH CAMPUS BEGINNING ON PAGE 64:

SOCIAL SCIENCE

The Social Science Department is committed to building excellence and positively impacting our community by enhancing access to all. This faculty seeks to provide equitable access to learning opportunities, address inclusive ideas, and perspectives of all students.

We acknowledge and hold central to our teaching practices our students' diverse intersectionalities including race, gender, socioeconomic background, religion, sexual orientation, gender identity, age, physical ability, ethnicity, country of origin, and intellectual perspective. To meet these diverse needs, the Social Science faculty strive to provide an inclusive environment where diversity is examined, protected, promoted, and celebrated.

Furthermore, we endeavor to develop a climate and culture where classrooms are a safe community of learners who are respected, reflected in the curriculum, universally supported, fairly assessed, and feel a strong sense of belonging.

*Dr. Jasey Kolarik, Department Head
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IMPORTANT SOCIAL SCIENCE COURSE INFORMATION

Three years are required for graduation, of which 1.0 must include a U.S. History course and .5 must include a Government course.

SOCIAL STUDIES

SS318 – NCAA

All Year - 1 Credit - 9

Prerequisite: Placement

Course Description: Social Studies is a one-year course focused on reading skill development designed to familiarize students with topics in social science centered on Geography, Sociology, Economics and Political Science. Students will also be introduced to the various methodologies employed by social scientists. In this class students will focus on Common Core State Standards for Grades 9-10 Literacy in History/Social Studies along with Illinois Learning Standards for Social Science. Reading materials will challenge students by presenting implicit concepts supported by data and context-dependent words. Students will address contemporary issues from multiple perspectives and will gain an understanding of how social scientists understand and shape the world. Built around enduring questions relevant to students' own lives, Social Studies encourages students to recognize and address social problems and to foresee the consequences of their own actions. Significant emphasis will be placed on the development of all students as participating and responsible members of their community and nation.

AP HUMAN GEOGRAPHY

SS333 – NCAA

All Year - 1 Credit (Grade Weighted) – 9, 10, 11, 12

Prerequisite: Placement or Teacher Recommendation See page 9.

Fees: See page 9 for AP Examination requirement at no cost.

Course Description: This course is designed to be the equivalent of a college survey. It aims to introduce students to the basic concepts of human geography and provide a geographic framework for the analysis of current world problems through the use of case studies. The course offers students the opportunity to understand the tools, themes, and concepts of geography; to think critically about geographic problems on the global, national and local scales; to appreciate the diversity of global cultures, including their cultural and economic characteristics; to understand how cultural landscapes are created and how they change over time; and to prepare for the Advanced Placement Human Geography examination.

AP ECONOMICS

SS348 – NCAA

All Year - 1 Credit (Grade Weighted) – 9, 10, 11, 12

Prerequisite: Placement or Teacher Recommendation See page 9.

Fees: See page 9 for AP Examination requirement at no cost.

Course Description: As a part of macroeconomics, students explore the principles of economics that apply to an economic system as a whole. The second half of the course focuses on microeconomics where students study the principles of economics that apply to the behavior of individuals within an economic system. Students will use graphs, charts, and data to analyze, describe, and explain economic concepts. Students will be allowed to take both the AP Microeconomics and AP Macroeconomics exams.

AFRICAN STUDIES: HISTORY AND INFLUENCE

SS349 – NCAA

Either Semester - .50 – Sophomore Core, Elective –10, 11, 12.

This course is part of the sophomore core, continental studies classes. Students select two of the following four classes: African Studies, East Asian Studies, European and West Asian Studies, and Latin American Studies. . The course cannot be taken to replace a missing U.S. History or U.S. Government course.

Fees: Materials for projects

Course Description: In this course, students will explore the history and influence of the African continent. Beginning with modern geography and current events, this course will trace the region’s foundational civilizations, interactions with growing globalization, establishment of a modern identity, and place in the contemporary world. Students will discover major voices and movements within Africa and surrounding regions through both primary and secondary sources. Regions and time periods of focus in the course include: Global positioning (geography and current events), foundational civilizations, post classical and colonialism, independence and change, and contemporary influences across Africa from Ancient Egypt to Sudanic and Swahili States, to colonial and post-colonial state-building across the continent.

EAST ASIAN STUDIES: HISTORY AND INFLUENCE

SS350 – NCAA Pending

Either Semester - .50 – Sophomore Core, Elective –10, 11, 12.

This course is part of the sophomore core, continental studies classes. Students select two of the following four classes: African Studies, East Asian Studies, European and West Asian Studies, and Latin American Studies. . The course cannot be taken to replace a missing U.S. History or U.S. Government course.

Fees: Materials for projects

Course Description: In this course, students will explore the history and influence of East Asia. Beginning with modern geography and current events, this course will trace the region’s foundational civilizations, interactions with growing globalization, establishment of a modern identity, and place in the contemporary world. Students will discover major voices and movements within the region through both primary and secondary sources. Regions and time periods of focus in the course include: Global positioning (geography and current events), foundational civilizations, post classical and colonialism, independence and change, and contemporary influences in areas including China, Japan, India, Indonesia, and South Pacific.

EUROPEAN AND WEST ASIAN STUDIES: HISTORY AND INFLUENCE

SS351 – NCAA Pending

Either Semester - .50 – Sophomore Core, Elective –10, 11, 12.

This course is part of the sophomore core, continental studies classes. Students select two of the following four classes: African Studies, East Asian Studies, European and West Asian Studies, and Latin American Studies. . The course cannot be taken to replace a missing U.S. History or U.S. Government course.

Fees: Materials for projects

Course Description: In this course, students will explore the history and influence of Europe and Western Asia. Beginning with modern geography and current events, this course will trace the region’s foundational civilizations, interactions with growing globalization, establishment of a modern identity, and place in the contemporary world. Students will discover major voices and movements within the region through both primary and secondary sources. Regions and time periods of focus in the course include: Global positioning (geography and current events), foundational civilizations, post classical and colonialism, independence and change, and contemporary influences in areas including the British Isles, Scandinavia, Eastern and Western Europe, the Balkans, Levante and Mashriq.

LATIN AMERICAN STUDIES: HISTORY AND INFLUENCE

SS352 – NCAA

Either Semester - .50 – Sophomore Core, Elective –10, 11, 12.

This course is part of the sophomore core, continental studies classes. Students select two of the following four classes:

African Studies, East Asian Studies, European and West Asian Studies, and Latin American Studies. . The course cannot be taken to replace a missing U.S. History or U.S. Government course.

Fees: Materials for projects

Course Description: In this course, students will explore the history and influence of Latin America. Beginning with modern geography and current events, this course will trace the region's foundational civilizations, interactions with growing globalization, establishment of a modern identity, and place in the contemporary world. Students will discover major voices and movements within the region through both primary and secondary sources. Regions and time periods of focus in the course include: Global positioning (geography and current events), foundational civilizations, post classical and colonialism, independence and change, and contemporary influences in Mexico, Central America, the Caribbean, and South American continent.

AP WORLD HISTORY

SS346 – NCAA

All Year - 1 Credit (Grade Weighted) – 10, 11, 12

Prerequisite: See page 9.

Fee: See page 9 for AP Examination requirement at no cost.

Course Description: AP World History follows the approved College Board curriculum, skills, practices, and themes. The course is equivalent to a general World History course taken in the first year of college. The course investigates how themes have changed and continued over time in different places. Students will refine their analytical abilities and critical thinking skills in order to understand historical context, make comparisons across cultures, use documents and other primary sources, and recognize and discuss different interpretations and historical frameworks. Students will be expected to take extensive notes on their secondary source reading, be prepared to participate in classroom discussions, and write a number of analytical, comparative, evolutionary, and document-based essays in preparation for the Advanced Placement World History examination. Students who take the AP Exam may earn college credit.

UNITED STATES HISTORY

SS330 – NCAA

All Year - 1 Credit - 11

Prerequisite: Placement

Fees: Materials for projects

Course Description: This course focuses on the unique history of the United States within a global world. The emphasis of this course is placed on the diversity of the American people from the Colonial Era to present day. This class will explore what it means to be an American and the development of the nation's past and its relation to the present. In addition to learning about America's history, successful students in this course will be expected to actively participate in class discussions, to improve their abilities to read and think analytically, and to express their ideas in verbal and written form. In this class students will focus on College and Career Readiness Standards and Common Core State Standards for Grades 11-12 Literacy in History/Social Studies.

ADVANCED UNITED STATES HISTORY

SS331 – NCAA

All Year - 1 Credit - 11

Prerequisite: Placement

Fees: Materials for projects

Course Description: This course focuses on the unique history of the United States within a global world. The emphasis of this course is placed on the diversity of the American people from the Colonial Era to present day. This class will explore what it means to be an American and the development of the nation's past and its relation to the present. In addition to learning about America's history, successful students in this course will be expected to actively participate in class discussions, to improve their abilities to read and think analytically, and to express their ideas in verbal and written form. In this class students will focus on College and Career Readiness Standards and Common Core State Standards for Grades 11-12 Literacy in History/Social Studies.

AP UNITED STATES HISTORY

SS307 – NCAA

All Year - 1 Credit (Grade Weighted) - 11

Prerequisite: See page 9.

Fees: See page 9 for AP examination requirement at no cost.

Course Description: This course is a college-level survey that traces the development of the American experience from the Age of Exploration and Discovery to the present day. Emphasis is placed on a variety of interpretations of important time periods and themes in American history, with special attention paid to the four historical thinking skills and seven core themes as outlined by the College Board. Students should expect highly dedicated teachers and to read roughly 150 pages per week in assigned text and source material. Furthermore, this class is writing intensive. All work culminates in, and prepares the student for, the AP exam in early May. Students who take this exam MAY earn college credit. In this class students will focus on College and Career Readiness Standards and Common Core State Standards for Grades 11-12 Literacy in History/Social Studies.

UNITED STATES GOVERNMENT

SS309 – NCAA

Either Semester - .50 Credit – 12

Prerequisite: Placement

Fees: Materials for projects

Course Description: This course analyzes the system of politics in America. Students will learn about the theories and foundations of American Government, the U.S. Constitution, political ideology, voter behavior, the legal aspects of individual rights, as well as state and local government. The course will also cover consumer economics, where students will learn financial literacy. This course will meet Illinois State Board of Education's requirements with regards to passing the Federal and State Constitution Test, a unit on consumer economics, and civics. Students will be asked to get involved in a number of different civic activities throughout the course.

ADVANCED UNITED STATES GOVERNMENT

SS310 – NCAA

Either Semester - .50 Credit – 12

Prerequisite: Placement

Fees: Materials for projects

Course Description: This course analyzes the system of politics in America. Students will learn about the theories and foundations of American Government, the U.S. Constitution, political ideology, voter behavior, the legal aspects of individual rights, as well as state and local government. The course will also cover consumer economics, where students will learn financial literacy. This course will meet Illinois State Board of Education's requirements with regards to passing the Federal and State Constitution Test, a unit on consumer economics, and civics. Students will be asked to get involved in a number of different civic activities throughout the course.

AP UNITED STATES GOVERNMENT AND POLITICS

SS311 - NCAA

All Year - 1 Credit (Grade Weighted) - 12 - Meets graduation requirement, U.S. and Illinois Constitution Requirement.

Prerequisite: See page 9.

Fees: See page 9.

Course Description: The Advanced Placement Course in United States Government and Politics is designed to give students a critical perspective on politics and government. This course involves both the study of general concepts used to interpret United States politics, civics, and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that make up the American political reality.

The subjects that the course covers include constitutional underpinnings, policy making institutions such as the legislature, the executive, the bureaucracy, and the courts, public opinion and the media, political participation and voting behavior, political parties, interest groups, election laws and election, civil liberties and rights, and accelerated budget making.

Tests are designed to simulate the AP Exams. Questions, both multiple choice and essay from past exams are used. Students will interpret charts, graphs, and political cartoons. This kind of practice will make students less apprehensive for the real AP Exam. In addition, students will complete the state-required units of the United States and Illinois Constitutions, the flag code, and consumer economics. Within the consumer economics unit, students will learn how to balance a checkbook, reconcile a bank statement, and participate in investment strategies by the use of the Internet Investing Simulations and economic literacy activities.

Students who receive a 3, 4, or 5 on the AP Exam may receive from 3 to 9 hours of college credit in history or political science, depending upon the college and its departmental policies. Students will be required to participate in community service projects

SOCIAL SCIENCE ELECTIVE PROGRAM

PSYCHOLOGY I

SS315 – NCAA

Either Semester - .50 Senior Core Elective Credit – 11, 12.

Fees: Materials for projects

Course Description: This course deals with the study of human behavior. Topics to be developed include: an introduction, history, and research methods of psychology, biological bases of behavior, consciousness, sensation and perception, cognition, learning, and life span development.

PSYCHOLOGY II

SS316 – NCAA

Second Semester - .50 Senior Core Elective Credit – 11, 12.

The course cannot be taken to replace a missing Social Studies, World History, U.S. History, or U.S. Government course.

Prerequisite: Successful Completion Psych I

Fees: Materials for projects

Course Description: This course deals with a reinforcement of the foundations acquired during Psychology I. Topics to be developed include: personality and its assessment, motivation and emotion, stress and health, psychological disorders, treatment of psychological disorders, and social psychology. A research project may be required.

AP PSYCHOLOGY

SS317 – NCAA

All Year - 1 Credit (Grade Weighted) – 1.0 Senior Core Elective – 11, 12.

The course cannot be taken to replace a missing U.S. History, or U.S. Government course.

Prerequisite: See page 9.

Fees: See page 9 for AP examination requirement at no cost.

Course Description: Advanced Placement Psychology is designed for the highly motivated student and will provide a solid background for college psychology courses. This course deals with the study of human behavior. Topics to be developed include: history and approaches of psychology, research methods, biological bases of behavior, sensation and perception, states of consciousness, learning, cognition, motivation and emotion, developmental psychology, personality, testing and individual differences, abnormal psychology, treatment of psychological disorders, and social psychology. Research projects are required.

SOCIOLOGY I

SS321 – NCAA

Either Semester - .50 Credit - Elective – 11, 12.

The course cannot be taken to replace a missing U.S. History, or U.S. Government course.

Fees: Materials for projects

Course Description: This course deals with the study of society. Sociology is concerned with groups – how they are formed and how they change – and with the actions of individuals within groups. Topics to be developed include: an introduction to sociology, sociologists doing research, culture, socialization, social structure and society, social stratification, inequalities of race and ethnicity, and inequalities of age and gender.

SOCIOLOGY II

SS324 – NCAA

Either Semester - .50 Credit - Elective – 11, 12.

The course cannot be taken to replace a missing U.S. History, or U.S. Government course.

Prerequisite: Sociology I

Fees: Materials for projects

Course Description: This course deals with a reinforcement of the foundations acquired during Sociology I. Sociology II is a study of contemporary social problems that plague different levels of society. Students will examine these problems using the conflict, symbolic interactionist, and functionalist perspectives. Topics to be developed include, but are not limited to, social institutions, population and urbanization, collective behavior and social movements, and social change and modernization. A research project may be required.

SOCIAL SCIENCE SEMINAR

TBA

Either Semester - .50 Credit – Elective - 10, 11, 12. May be repeated for a total of 1 Credit.

Prerequisite: Department Chair approval

Course Description: Designed for students wishing to obtain specialized Social Science credit. The course includes an in-depth project in the seminar area of study. Written teacher and department head approval is required.

SPECIAL EDUCATION

District 126 provides all students with disabilities a free and appropriate public education in accordance with applicable state and federal laws. Parents/guardians of students with disabilities and the student serve as team members with the public school staff in determining eligibility for and provisions of special education services. Every identified student will be assigned a case manager to facilitate registration, monitor compliance with legal requirements, and provide assistance to students, teachers, and parents.

The major goals of the Special Education Department are:

- to provide the specialized instruction and supports necessary for a student with identified special education needs in the least restrictive environment in which the student can succeed; and
- to ensure, as much as possible, that each student is encouraged:
 - to identify strengths and to minimize weaknesses,
 - to accept a major portion of the responsibility for the quality of his/her life,
 - to view oneself as a capable human being able to contribute to the home and school community, and
 - to actively engage in planning a post-high school career

In order to achieve these goals, the District's Special Education Department offers a continuum of resources and instructional services for eligible students with disabilities in the categorical areas of: Learning Disabilities, Intellectual Disabilities, Emotional Disturbances, Autism, Physical Disabilities, Traumatic Brain Injuries, Other Health Impairments, Hearing and Vision Impairments (including deafness and deaf-blindness), and Speech and Language disabilities. Students will be registered for general education classes unless the student's Individualized Education Program (IEP) specifies a more restrictive environment. The goal is to meet the educational and/or emotional needs of students using the least restrictive environment appropriate to the individual child. To offer a full continuum of special education options, District 126 works with the Special Education District of Lake County (SEDOL). For additional information, contact the Special Education Department at 847-731-9713.

Emily Waddick - Department Head
847-731-9713 – waddicke@zbths.org

INSTRUCTIONAL STRATEGIC READING

SP256

All Year - 1 Credit

Prerequisite: Approval of Director of Special Education and parent permission.

Course Description: Strategic Reading is a small group instruction course focusing on the four components of research-based reading instruction--decoding, fluency, vocabulary building, and comprehension—to help students improve reading performance. As students develop skills in the four identified areas, they also receive guidance in applying the strategies to content area classes (English, social science, math and science), thus giving them the additional support they may need to succeed in such courses. It also provides additional support to students preparing for SAT testing. Non-fiction individualized computer instruction provides visual, auditory, and kinesthetic practice specific to the student's independent level of comprehension, vocabulary, and grammar. In addition to reading skills, students learn basic grammar and spelling through the writing process. Students will work toward completion of course goals consistent with their IEP goals.

READING FOUNDATIONS

SP226

All Year - 1 Credit

Prerequisites: Approval of Director of Special Education and parent permission.

Course Description: Reading Foundations is a small group instruction course focusing on reading, grammar, punctuation, and parts of speech in addition to the content in their English and Reading course. This course will allow

students to make gains towards becoming closer to grade level in the areas of their Lexile, fluency, and spelling. This course has two different delivery methods. The online component provides students with the opportunity to move at their own pace. While students work online, the teacher receives reports and will make assignments at critical junctures within students' learning paths. The teacher directed components reinforce grade-level expectations while delivering explicit instruction. This combination ensures accelerated learning, intensive instruction of foundational skills, and exposure to grade-equivalent standards, text, and vocabulary to move students to reading independence. Students will work toward completion of course goals consistent with their IEP goals.

INSTRUCTIONAL ENGLISH 1

SP240

All Year - 1 Credit - 9

Prerequisite: Approval of Director of Special Education and parent permission.

Fees: Paperback Texts. Summer Reading Required.

Course Description: This course is designed to accept eligible students at their present level of ability, this course offers a basic introduction to effective written and oral communication skills and is designed for students needing additional support. Students will work toward completion of course goals consistent with their IEP goals. Coursework focuses on style, structure, and language appropriate for various purposes and audiences. Students will be actively involved in research methodology, writing, and speaking. As part of the coursework, students will review basic grammar and usage, study vocabulary, read selected fiction and nonfiction texts, and utilize technology to develop multimedia products and presentations. This course uses materials, methods, and objectives appropriate to the student.

INSTRUCTIONAL ENGLISH 2

SP246

All Year – 1 Credit – 10

Fees: Paperback Texts/Workbooks

Summer Reading Required

Course Description: This course introduces students to world literature through the study of its traditions, techniques, and genres. Students investigate how past world beliefs and values have influenced our culture today. The course emphasizes extensive instruction in the writing process in which students produce a variety of paragraphs, essays, journals, and other forms of writing. Students build upon grammar and vocabulary from their freshman English course. This course also incorporates a study of humanities as a means of investigating world literature. Students will work towards completion of course goals consistent with their IEP goals.

INSTRUCTIONAL AMERICAN LITERATURE

SP251

All Year-1 Credit - 11

Prerequisite: Approval of Director of Special Education and parent permission.

Fees: Paperback Texts. Summer Reading Required.

Course Description: This course is designed to accept eligible students at their present level of ability. Students will work toward completion of course goals consistent with their IEP. The course utilizes materials, methods, and objectives appropriate to the student.

INSTRUCTIONAL CONTEMPORARY TEXTS AND COMPOSITION

SP252

All Year - 1 Credit - 12

Prerequisite: Approval of Director of Special Education and parent permission.

Fees: Paperback Texts. Summer Reading Required.

Course Description: This course will focus on developing writing skills for post-secondary planning. Students will spend time reading contemporary texts that will encourage them to consider the challenges that come about while making the transition from adolescence into adulthood. This course stresses the importance of class discussions, required written assignments, and reading of contemporary literature. Students will work toward completion of course goals consistent with their IEP goals.

INSTRUCTIONAL SOCIAL STUDIES

SP242

All Year - 1 Credit - 9

Prerequisite: Approval of Director of Special Education and parent permission.

Course Description: This course is intended for students who require instructional services and is designed to accept eligible students at their present level of ability. The course will familiarize students with several social science disciplines and the various methodologies employed by social scientists. Students will work toward completion of

course goals consistent with their IEP goals. Students will address contemporary issues from multiple perspectives and will gain an understanding of how social scientists understand and shape the world. Social Studies encourages students to recognize and address social problems and to foresee the consequences of their own actions. Significant emphasis will be placed on the development of all students as participating and responsible members of their community and their nation.

AFRICAN STUDIES: HISTORY AND INFLUENCE

SP300

Either Semester - .50 – Sophomore Core, Elective –11, 12.

This course is part of the sophomore core, continental studies classes. Students select two of the following four classes: African Studies, East Asian Studies, European and West Asian Studies, and Latin American Studies. . The course cannot be taken to replace a missing U.S. History or U.S. Government course.

Fees: Materials for projects

Course Description: In this course, students will explore the history and influence of the African continent. Beginning with modern geography and current events, this course will trace the region’s foundational civilizations, interactions with growing globalization, establishment of a modern identity, and place in the contemporary world. Students will discover major voices and movements within Africa and surrounding regions through both primary and secondary sources. Regions and time periods of focus in the course include: Global positioning (geography and current events), foundational civilizations, post classical and colonialism, independence and change, and contemporary influences across Africa from Ancient Egypt to Sudanic and Swahili States, to colonial and post-colonial state-building across the continent. Students will work toward completion of course goals consistent with their IEP goals.

EAST ASIAN STUDIES: HISTORY AND INFLUENCE

SP301

Either Semester - .50 – Sophomore Core, Elective –11, 12.

This course is part of the sophomore core, continental studies classes. Students select two of the following four classes: African Studies, East Asian Studies, European and West Asian Studies, and Latin American Studies. . The course cannot be taken to replace a missing U.S. History or U.S. Government course.

Fees: Materials for projects

Course Description: In this course, students will explore the history and influence of East Asia. Beginning with modern geography and current events, this course will trace the region’s foundational civilizations, interactions with growing globalization, establishment of a modern identity, and place in the contemporary world. Students will discover major voices and movements within the region through both primary and secondary sources. Regions and time periods of focus in the course include: Global positioning (geography and current events), foundational civilizations, post classical and colonialism, independence and change, and contemporary influences in areas including China, Japan, India, Indonesia, and South Pacific. Students will work toward completion of course goals consistent with their IEP goals.

EUROPEAN AND WEST ASIAN STUDIES: HISTORY AND INFLUENCE

SP302

Either Semester - .50 – Sophomore Core, Elective –11, 12.

This course is part of the sophomore core, continental studies classes. Students select two of the following four classes: African Studies, East Asian Studies, European and West Asian Studies, and Latin American Studies. . The course cannot be taken to replace a missing U.S. History, or U.S. Government course.

Fees: Materials for projects

Course Description: In this course, students will explore the history and influence of Europe and Western Asia. Beginning with modern geography and current events, this course will trace the region’s foundational civilizations, interactions with growing globalization, establishment of a modern identity, and place in the contemporary world. Students will discover major voices and movements within the region through both primary and secondary sources. Regions and time periods of focus in the course include: Global positioning (geography and current events), foundational civilizations, post classical and colonialism, independence and change, and contemporary influences in areas including the British Isles, Scandinavia, Eastern and Western Europe, the Balkans, Levante and Mashriq. Students will work toward completion of course goals consistent with their IEP goals.

LATIN AMERICAN STUDIES: HISTORY AND INFLUENCE

SP303

Either Semester - .50 – Sophomore Core, Elective –11, 12.

This course is part of the sophomore core, continental studies classes. Students select two of the following four classes: African Studies, East Asian Studies, European and West Asian Studies, and Latin American Studies. . The course cannot be taken to replace a missing U.S. History or U.S. Government course.

Fees: Materials for projects

Course Description: In this course, students will explore the history and influence of Latin America. Beginning with modern geography and current events, this course will trace the region's foundational civilizations, interactions with growing globalization, establishment of a modern identity, and place in the contemporary world. Students will discover major voices and movements within the region through both primary and secondary sources. Regions and time periods of focus in the course include: Global positioning (geography and current events), foundational civilizations, post classical and colonialism, independence and change, and contemporary influences in Mexico, Central America, the Caribbean, and South American continent. Students will work toward completion of course goals consistent with their IEP goals.

INSTRUCTIONAL UNITED STATES HISTORY

SP259

All Year - 1 Credit - 11

Prerequisite: Approval of Director of Special Education and parent permission.

Course Description: This course will examine American History. Significant time periods and events will be covered and discussed throughout the course. Students will learn about American influences, expansion, and global events that have impacted America and the overall American experience. Content of the course will be integrated with content presented in other core areas. Students will work toward completion of course goals consistent with their IEP goals.

INSTRUCTIONAL GOVERNMENT

SP260

Either Semester - .50 Credit - 12

Prerequisite: Approval of Director of Special Education and parent permission.

Course Description: This course is designed to accept eligible students at their present ability level. Students will work towards course goals as well as IEP goals. This course will utilize materials, methods and objectives that are appropriate to individual students. The student will study the structure of government, analyze the consequences of participation and non-participation in the electoral process, and understand historical events and processes that brought about changes in the United States. Students will also look at the roles and influences of individuals, groups and the media in shaping current debates on state and national policies. Students will take the Federal and State Constitution Tests as part of this course and there will be a consumer economics unit as part of this course. This course will meet the Illinois State Board of Education's requirements with regards to passing the Federal and State Constitution Tests, a unit on consumer economics, and civics.

INSTRUCTIONAL BIOLOGY

SP243

All Year - 1 Credit - 9

Prerequisite: Approval of Director of Special Education and parent permission.

Course Description: This course is intended for students who need instructional services and is designed to accept eligible students at their present level of ability. Instructional Biology is a laboratory-oriented class where biological concepts are investigated. Important topics covered are biochemistry, ecology, cells, genetics, evolution, microbiology, animals, and human systems. Group and individual projects, laboratory activities, and cooperative learning groups are utilized in this class in order to give students the scientific knowledge and skills to be successful. Students will work toward completion of course goals consistent with their IEP goals.

INSTRUCTIONAL CHEMISTRY

SP249

All Year - 1 Credit - 10

Prerequisite: Approval of Director of Special Education and parent permission.

Course Description: In Instructional Chemistry students will investigate fundamental chemistry concepts including: properties of matter, atomic structure, periodic trends, chemical bonding, energy, laws of conservation, pH, nuclear chemistry, and organic chemistry. The goals of the course are to integrate the study of mathematics into chemistry, to improve problem-solving skills, and reasoning ability. Students in the instructional class will receive instruction that is aligned to the regular curriculum. In some cases, based on student needs, parallel activities will be planned to illustrate

concepts that are presented in the regular chemistry class. Students will work toward completion of course goals consistent with their IEP goals.

INSTRUCTIONAL PHYSICS

SP254

All Year - 1 Credit - 11

Prerequisite: Approval of Director of Special Education and parent permission.

Course Description: This course is intended for students who need instructional support. It is designed to accept eligible students at their present ability level. Instructional Physics is a laboratory oriented class where students will study concepts related to physical sciences. Topics covered include: constant velocity, acceleration, forces, universal gravitation, work and energy, and momentum. Group and individual projects, laboratory activities, and cooperative learning groups are utilized in this course to teach students problem solving skills and scientific concepts. Students will work towards completion of course goals consistent with their IEP goals.

INSTRUCTIONAL EARTH SCIENCE

SP299

All Year - 1 Credit- 11 and 12

Prerequisite: Approval of Director of Special Education and parent permission

Course Description: Instructional Earth Science is a course that collectively seeks an understanding of the earth and its environment in space. Students will explore the topics of oceanography, geology, astronomy, meteorology and geography. Students will have the opportunity to participate in laboratory investigations and simulations to gain personal experiences with the surroundings in which they live. Students will work towards completion of course goals consistent with their IEP goals.

INSTRUCTIONAL ENVIRONMENTAL ECOLOGY

SP266

All Year – 1 Credit – 12

Prerequisite: Approval of Director of Special Education and parent permission.

Course Description: Instructional Environmental Science is designed to accept eligible students at their present level of ability. This course is designed to increase students' awareness of the universe they live in. Among units covered are astronomy, geography, geology, meteorology, oceanography, mineralogy, and the earth's natural resources. Students will work toward completion of course goals consistent with their IEP. This course utilizes materials, methods, and objectives appropriate to the student.

LIFE SKILLS MATH 1

SP244

All Year - 1 Credit - 9

Prerequisites: Approval of Director of Special Education and parent permission.

Course Description: This course is intended for students who need instructional support and is designed to accept eligible students at their present level of ability. The course will familiarize students with basic math and math life skill concepts. Students will work toward completion of course goals consistent with their IEP goals.

LIFE SKILLS MATH 2

SP255

All Year - 1 Credit - 10

Prerequisites: Approval of Director of Special Education and parent permission.

Course Description: This course is designed to accept eligible students at their present level of ability. Students will work toward completion of course goals consistent with their IEP goals. This course utilizes materials, methods, and objectives appropriate to the student.

LIFE SKILLS MATH 3

SP258

All Year - 1 Credit – 11, 12

Prerequisites: Approval of Director of Special Education and parent permission.

Course Description: This course is designed to accept eligible students at their present ability level. Students will work towards completion of course goals consistent with their IEP. This course utilizes materials, methods, and objectives appropriate to the student.

INSTRUCTIONAL MATH 1

SP247

All Year - 1 Credit – 9, 10**Prerequisite:** Approval of Director of Special Education and parent permission.**Course Description:** This course integrates the foundational concepts of algebra, geometry, and statistics. In this course, students will focus on linear and exponential relationships as well as geometric relationships. Major concepts include: representing/analyzing data, solving linear equations and inequalities, graphing linear and exponential functions, transformational geometry, congruence, and angle relationships. Students will work toward completion of course goals consistent with their IEP goals.**INSTRUCTIONAL MATH 2**

SP220

All Year - 1 Credit – 10, 11**Prerequisite:** Approval of Director of Special Education and parent permission.**Course Description:** This course is designed for students who have completed Instructional Math 1 and to develop a deeper understanding of the foundational concepts of algebra, geometry, and probability. In this course students will extend their knowledge from Math 1 to quadratic models. Other major concepts include: rational exponents, similarity, right triangle trigonometry, probability, volume, and properties of circles. Students will work toward completion of course goals consistent with their IEP goals.**INSTRUCTIONAL MATH 3**

SP257

All Year - 1 Credit – 11, 12**Prerequisite:** Approval of Director of Special Education and parent permission.**Course Description:** This course is designed to develop a deeper understanding of the underlying concepts of algebra, geometry and statistics. As the third course in the integrated sequence, this course will afford the student opportunities for engaging in activities that will facilitate the transition to more abstract ways of thinking. Units include: exponential and logarithmic functions, polynomials, circles and trigonometry, applied geometry, and inferential statistics. Students will work toward completion of course goals consistent with their IEP goals.**INSTRUCTIONAL CONSUMER MATH**

SP245

All Year - 1 Credit – 11, 12. *Fulfills Personal Finance Graduation Requirement; This class fulfills the state requirement of Consumer Economics.***Prerequisite:** Approval of Director of Special Education and parent permission.**Course Description:** This course is designed to be an extension of the instructional math courses students have completed their freshman through junior years. The emphasis of this class will be consumer math. Topics discussed will be: supply and demand, checking accounts, consumer credit, employment, insurance, and financial living expenses. Students will leave this course with a greater understanding of how mathematics is applied in the real world. Students will work toward completion of course goals consistent with their IEP goals.**INSTRUCTIONAL HEALTH**

SP262

Either Semester - .50 Credit – 9, 10, 11, 12**Prerequisite:** Approval of Director of Special Education and parent permission.**Course Description:** This class is designed to meet state health goals and learning outcomes, as well as graduation requirements. Methods and materials are meant to meet each student's individual educational needs while providing instruction in the required areas of mental and physical health and wellbeing. Students will work toward completion of course goals consistent with their IEP goals.**LEARNING SKILLS CENTER**

SP2611/SP2613

Either Semester - .25 Credit - Elective - 9, 10, 11, 12. May be repeated.**Prerequisites:** Approval of Director of Special Education and parent permission.**Course Description:** This course is offered to special education students. The intent of the Learning Skills Center is to assist students with organization, test taking, and support in all related academic areas. Students will work toward completion of course goals consistent with their IEP goals.

INSTRUCTIONAL LIFE MANAGEMENT

SP269

All Year-1 Credit - 9, 10, 11, 12. *Fulfills Personal Finance Graduation Requirement; This class fulfills the state requirement of Consumer Economics.*

Prerequisite: Approval of Director of Special Education and parent permission.

Course Description: Students will reflect on themselves in order to learn skills that will prepare them for post-secondary life. Topics covered in this course include: interpersonal skills, conflict resolution, goal setting, employment basics, budgeting, and healthy lifestyle choices. Students will work toward completion of course goals consistent with their IEP goals.

VOCATIONAL CAREERS 1

SP278

All Year - 1 Credit – 9, 10

Prerequisite: Approval of Director of Special Education and parent permission.sic

Course Description: This course focuses on the development of pre-vocational skills. Students will be introduced to the world of work. Job skills, resumes, and other work related activities will help students to focus on their careers of interest and understand what skills they will need to bring to the workplace to be successful. Students will work toward completion of course goals consistent with their IEP goals.

VOCATIONAL CAREERS 2 TOPICS IN TRANSITION

SP267

All Year - 1 Credit – 10, 11, 12

Prerequisite: Approval of Director of Special Education and parent permission.

Course Description: Designed to give the student basic pre-vocational skills. This course will include an appropriate on-campus job. During this class students will participate in the vocational assessment program at the Lake County High School Technology Campus. Course may be repeated for credit. Students will work toward completion of course goals consistent with their IEP goals.

COOPERATIVE WORK EXPERIENCE

SP279

Variable Schedule and Credit

Prerequisite: Approval of Director of Special Education and parent permission.

Course Description: Provides on-the-job training. Course can be repeated for credit. Students will work toward completion of course goals consistent with their IEP goals.

EDUCATIONAL LIFE SKILLS

The ELS program is a small group instructional program for students in grades 9-12. The program is designed to meet the needs of students with moderate to severe cognitive needs. Students in this program require a curriculum that focuses on functional life skills. The design is an individualized, modified curriculum that is based on Illinois Learning Standards. Students will receive instruction in academic, community, and vocational skills. Instructional services are planned and implemented by the team to support the student's daily educational program and achievement of individualized goals.

SUPPORTED INSTRUCTIONAL PROGRAM

The SIP program is a cross-categorical, small group instructional program for students grades 9-12. The program is designed to meet the needs of students who have moderate cognitive and specific learning needs and who require a highly supportive instructional setting. Opportunities are provided within the community to practice skills taught within the educational setting. Skills presented in this program focus on a modified curriculum based on Illinois Learning Standards. Instruction and therapies (speech/language, occupational therapy, physical therapy, social work, etc.) are delivered in small and large group situations based on individual needs. Students in this program are integrated into the general education programs with support as appropriate.

TEACHING APPROPRIATE BEHAVIOR PROGRAM COURSES

The Teaching Appropriate Behavior Program adapts regular level courses to materials and methods appropriate to the individual student.

Courses Offered:

TAB Language Arts
TAB Learning Skills Center
TAB Social Studies

TAB Science
TAB Math
TAB Family & Consumer Science

TAB Reading
TAB Vocational Careers

VISUAL AND PERFORMING ARTS

The Visual and Performing Arts Department provides students with the opportunity to grow artistically and to develop the skills necessary to express themselves creatively through the arts. Students are encouraged to find their own modes of self-expression by developing their creativity in art, music, and drama.

We believe the arts are an important part of a well-rounded education, and we welcome students of all ability levels to explore the arts with us.

Andrew Stout, Department Head
847-731-9492 – stouta@zbths.org

INTRODUCTION TO ART

VP701

Either Semester – .50 Credit – Elective – 9, 10, 11, 12

Course Description: This is a lab class designed for students interested in learning basic skills in art. Areas of study include two-dimensional and three-dimensional work in drawing, painting, ceramics, and jewelry. Students work with various art media, including pencil, colored pencil, marker, Tempera paint, clay and metal. *This course is helpful for students who are not sure which material they prefer.*

3-D SCULPTURE 1

VP714

Either Semester - .50 Credit – Elective – 9, 10, 11, 12

Helpful Course: Introduction to Art.

Course Description: This is a lab class designed for students interested in working three-dimensionally. Students work with various media, including metal, wood, clay, plaster, textiles and paper. Areas of study include design, ceramics, printmaking, textiles, and jewelry.

3-D SCULPTURE 2

VP715

Either Semester – .50 Credit – Elective – 10, 11, 12

Prerequisite: 3-D Sculpture 1

Course Description: This is a lab class designed for students interested in advanced three-dimensional study. Students complete longer term, more extensive, and more sophisticated three-dimensional art pieces using various media. *This course may be repeated for elective credit.*

INTRODUCTION TO STUDIO ART:PORTFOLIO PREPARATION

VP717

All Year - 1 Credit - (Grade Weighted) - Elective – 11

Helpful Courses: Introduction to Art, Drawing and Painting 1, 2, Ceramics, 3-D Sculpture 1, 2, Jewelry.

Course Description: This course is preparatory for the senior year when AP Art students prepare their art portfolios. In this class students choose to work on projects for their Drawing Portfolio, 2-D Design Portfolio, or 3-D Design Portfolio. Emphasis is placed on drawing skills and spatial relationships, and studio skills through a variety of media. Sketchbook drawing homework is assigned weekly.

AP STUDIO ART

VP718

All Year – 1 Credit (Grade Weighted) – Elective – 12

Prerequisites: Introduction to AP Studio Art OR written approval from instructor.

Helpful Courses: Drawing and Painting 1, 2; Ceramics; 3-D Sculpture 1, 2; Jewelry.

Fees: See page 9 for AP Examination requirement at no cost.

Course Description: This course is for students preparing an art portfolio (Drawing, 2-D Design or 3-D Design) for the AP Studio Art exam. The course is individualized to student needs. Students prepare and submit an outline of proposed projects of their choice to be completed. The teacher acts as a resource to students as they progress with their projects. This course focuses on experimentation, investigation, and process.

CERAMICS 1

VP703

Either Semester – .50 Credit – Elective – 9, 10, 11, 12

Helpful Course: Introduction to Art

Course Description: This is a lab class designed for students interested in working with clay. Students experience hand-building, sculpture, wheel throwing, and glazing techniques. They also build useful and ornamental objects.

CERAMICS 2

VP7041/VP7043

Either Semester – .50 Credit – Elective – 10, 11, 12

Prerequisite: Ceramics 1

Course Description: This is a lab class designed for students who want to expand their hand-building skills in clay. In this course, special emphasis is placed on improved techniques of wheel throwing. Students build more sophisticated objects. *Students may repeat this class for elective credit.*

DIGITAL PHOTOGRAPHY

VP716

Either Semester - .50 Credit - Elective – 11, 12

Fees: Fee card as needed

Course Description: Students will have the opportunity to discover the world of Digital Photography and Photographic Art. Students will use Adobe Photoshop and Adobe Lightroom to digitally process and edit photographs for both print and online use. This course will familiarize students with digital photographic equipment, materials, methods, and processes, while helping students learn and apply basic elements of art and the principles of design. Areas of composition of pictures, creative techniques, studio portrait photography and introducing the different artistic ways of photography will be included.

GRAPHIC ART AND DESIGN 1

VP705

Either Semester – .50 Credit – Elective – 10, 11, 12

Course Description: This is a lab class designed for students interested in basic graphics arts and graphic design techniques. Students learn design, layout, and computer applications that are currently used in the advertising industry. Techniques such as layering, compositing, and photographic artwork will be explored as well as current trends in graphic design including color theory, typography, and layout and composition. Students with a strong artistic background or who have a strong interest in improving their digital artistic skills should take this course.

GRAPHIC ART AND DESIGN 2

VP706

Either Semester – .50 Credit – Elective – 10, 11, 12

Prerequisite: Graphic Art and Design 1

Course Description: This is a lab class designed for students interested in advanced graphic art and graphic design techniques. *Adobe Photoshop, Adobe Illustrator*, and other applications are explored. Illustrations and computer-generated images created in *Photoshop* and *Illustrator* are compiled into a student portfolio. Art students who want to major in graphic arts or graphic design will have the opportunity to create a portfolio of digital images for admission into college programs. Students will also have the opportunity to earn the industry-recognized credential, Adobe Certified Associate certification in *Photoshop*.

DRAWING 1

VP707

Either Semester – .50 Credit – Elective – 9, 10, 11, 12

Prerequisite (9, 10, 11): Introduction to Art.

Course Description: This is a lab class designed for students interested in expanding and improving their drawing skills. Experiences include work in pencil, colored pencil, pastel, scratchboard and ink. Sketchbook drawing homework is assigned weekly.

DRAWING 2

VP7081/VP7083

Either Semester – .50 Credit – Elective – 10, 11, 12

Prerequisite: Drawing 1

Course Description: This is a lab class designed for students interested in advanced drawing skills. Students explore studies in still life, landscape, portraiture, and perspective. Students also use printmaking techniques to create multiples of their images. Sketchbook drawing homework will be assigned weekly. *This course may be repeated for elective credit.*

JEWELRY 1

VP709

Either Semester - .50 Credit – Elective – 9, 10, 11, 12

Helpful Course: Introduction to Art

Course Description: This is a lab class designed for students interested in developing skills in jewelry-making with metals and craft jewelry. Students learn techniques in sawing, soldering, leatherworking, clay, wire, and needleworking. Students will design and build useful and ornamental objects in this class.

JEWELRY 2

VP7101/VP7103

Either Semester – .50 Credit – Elective – 10, 11, 12

Prerequisite: Jewelry 1

Course Description: This is a lab class designed for students interested in building on skills learned in Jewelry 1 to create more elaborate, advanced jewelry. *Students may repeat this course for elective credit.*

PAINTING 1

VP711

Either Semester – .50 Credit – Elective – 9, 10, 11, 12

Helpful Courses: Introduction to Art and Drawing 1.

Course Description: This is a lab class designed for students interested in expanding and improving their painting skills. Students work in both abstract and realistic styles using watercolor, acrylic, and tempera paints. Sketch/Paint book homework is assigned.

PAINTING 2

VP7121/VP7123

Either Semester – .50 Credit – Elective – 10, 11, 12

Prerequisite: Painting 1

Course Description: This is a lab class designed for students interested in advanced painting skills. Students explore studies in both abstract and realistic painting, using watercolor, tempera and acrylic paint. Sketch/Paint book homework is assigned. *Students may repeat this course for elective credit.*

ART SEMINAR

TBA

Either Semester - .50 Credit - Elective – 11, 12. May be repeated for a total of one (1.0) credit.

Prerequisite: Written approval from instructor and Division Chair.

Course Description: This is a lab class designed for students wishing independent study in a specialized art area. The student and instructor establish course objectives and assessments.

ACTING 1

VP720

Either Semester – .50 Credit – Elective – 9, 10, 11, 12

Fees: Required field trip fees

Course Description: This is a lab course for beginning acting students that explores the performer's skills to create believable action, develop concentration, and strengthen imagination. Skills developed include: voice, movement, facial expression, and character development. Students are expected to perform regularly in front of the class, and to take part in peer review. Acting 1, 2, and 3 students may be members of the same class. *Attendance at the Fine Arts Festival is mandatory. Students will be given dates ahead of time.*

ACTING 2

VP721

Either Semester – .50 Credit – Elective – 9, 10, 11, 12

Prerequisite: Acting 1

Fees: Required field trip fees

Course Description: This is a lab course for intermediate acting students that uses scripted material to improve the actor's voice and movement, with an emphasis on character development. Students are expected to perform regularly in

front of the class, and to take part in peer review. Acting 1, 2, and 3, and Acting Seminar students may be members of the same class, but with a differentiated curricular focus. *Attendance at the Fine Arts Festival is mandatory. Students will be given dates ahead of time.*

ACTING 3

VP7221

Either Semester – .50 Credit – Elective – 10, 11, 12

Prerequisite: Acting 1, 2

Fees: Required field trip fees

Course Description: This is a lab course for intermediate acting students that use scripted material to improve the actor's voice and movement, with an emphasis on character and full play development. This course helps students develop research and analysis skills as they focus on creating believable characters and movement. Acting 2, Acting 3, and Acting Seminar students may be members of the same class, but with a differentiated curricular focus. *Attendance at the Fine Arts Festival is mandatory. Students will be given dates ahead of time.*

ACTING SEMINAR

TBA

Either Semester – .50 Credit – Elective – 10, 11, 12

Prerequisite: Acting 1, 2. Student must have written approval from instructor and Division Chair.

Fees: Required field trip fees

Course Description: A lab course for advanced acting students who wish to further their skills in vocal and body interpretation of a script or to try their hand at directing. Students in this course may be assigned a full play for direction. This course may be repeated. *Attendance at the Fine Arts Festival is mandatory. Students will be given dates ahead of time. Seminar students must be approved by the instructor prior to enrollment in the course.*

INTRODUCTION TO THEATRICAL PRODUCTION

VP758

Either Semester – .50 Credit – Elective – 9, 10, 11, 12

Fees: Required field trip fees

Course Description: This is a hands-on working lab class that introduces students to the non-acting areas of theater including set, lights, costume, makeup, and publicity. Students are required to complete designs and projects related to a specific play. Acting students generally find this course of particular value. Students will use tools, try out makeup, and will be required to try a variety of activities. *Attendance at the Fine Arts Festival is mandatory. Students will be given dates ahead of time.*

THEATRICAL PRODUCTION SEMINAR

VP759

Either Semester – .50 Credit – Elective – 9, 10, 11, 12

Fees: Required field trip fees

Course Description: This hands-on lab course is for the student who wishes to focus on a singular area of theatrical production design (set, lights, sound, costume, or make-up). The student will work with a mentor teacher to create and execute the design work for one of our ZB Encore Players Productions. The student will practice design and revision, as well as work on a production team. Students in this course are expected to be self-motivated, able to work independently and meet hard deadlines. *Seminar students must be approved by the instructor prior to enrollment in the course.*

CONCERT BAND 1

VP730

All Year – 1 Credit – Elective – 9, 10, 11, 12

Prerequisites: 1) Junior High Band experience/Junior High instructor recommendation. Prior experience playing a woodwind, brass, or percussion instrument. 2) Instructor approval.

Fees: Activity fee to cover some supplies and uniform items. Students will need to supply their own instrument and supplies, but there are a limited number of school-owned instruments available.

Course Description: This co-curricular ensemble focuses on the fundamentals of technique and musicianship. These fundamentals include instrument care, posture and playing position, embouchure, breath control, tone production, intonation, and fingerings. The techniques of ensemble and full band performance are stressed. Upon completion of this course, students may audition for a more advanced band. Music performed by this group is primarily grade 2.5 and 3 level on a scale from 0-6. Required performances occur outside of the school day and include concerts, music festivals, football games, and pep band games. Students in this course receive a PE waiver for the Fall semester. *Students may repeat this course for elective credit with consent of instructor.*

CONCERT BAND 2

VP732

All Year – 1 Credit – Elective – 9, 10, 11, 12

Prerequisites: Audition or Instructor Approval.

Fees: Activity fee to cover some supplies and uniform items. Students will need to supply their own instrument and supplies, but there are a limited number of school-owned instruments available.

Course Description: This co-curricular ensemble gives particular attention to the fundamentals of large ensemble performance and the continued development of technical skills. Rehearsal techniques, tone production, aural and perceptual skills, and basic music theory are stressed. In addition to several formal concerts, members are required to participate in marching performances, various school/community activities, and sectionals. Music performed by this group is primarily grade 3 and 4 level on a scale from 0-6. Upon completion of this course, students may audition for Symphonic Band. Required performances occur outside of the school day and include concerts, music festivals, football games, and pep band games. Students in this course receive a PE waiver for the Fall semester. Percussionists in Concert Band and Symphonic Band should register for VP731 Percussion Class.

Students may repeat this course for elective credit with consent of instructor.

SYMPHONIC BAND

VP733

All Year – 1 Credit – Elective – 9, 10, 11, 12

Prerequisites: Musical audition based on note accuracy, rhythmic accuracy, tone quality, and musicianship and instructor approval.

Fees: Activity fee to cover some supplies and uniform items. Students will need to supply their own instrument and supplies, but there are a limited number of school-owned instruments available.

Course Description: This is an advanced level instrumental ensemble which gives particular attention to the fundamentals of chamber and large ensemble performance and the continued development of technical skills. Rehearsal techniques, tone production, aural and perceptual skills, and basic music theory are stressed. In addition to several formal concerts, members are required to participate in marching performances, various school/community activities, and sectionals. Music performed by this group is primarily grade 4.5 and higher on a scale from 0-6. Also, members have the opportunity to participate in numerous district, state, and college sponsored music festivals, concerts, and contests. Participants in Percussion, Concert Bands, or Symphonic Band may waive one semester of the physical education semester graduation requirement per year.

Percussionists in Symphonic Band should register for Percussion VP731 instead of this course.

Students may repeat this course for elective credit with consent of instructor.

PERCUSSION

VP731

BEGINNING GUITAR

VP7381/VP7383

Either Semester – .50 Credit – Elective – 9, 10, 11, 12

Fees: Students are required to purchase one Guitar book and guitar picks.

Course Description: This course provides basic instruction in the fundamentals of acoustic guitar combined with the study of musical notation, style, and form for guitar. *Students may repeat this course for elective credit with consent of the instructor.*

INTRODUCTION TO PIANO

VP760

Either Semester – .50 Credit – Elective – 9, 10, 11, 12

Fees: Students will be required to purchase one piano workbook.

Course Description: Introduction to Piano is available to all students in Grades 9 through 12 enrolled at Zion-Benton Township High School. This course is a beginner's class designed for students who wish to develop basic piano playing skills. Time in class will be spent learning both traditional piano literature and popular music by playing alone and with others. Students will learn to read standard music notation, read chords and chord charts, create original compositions for piano, and develop effective technique for successful piano performance. This course may be taken as an introductory course leading to AP Music Theory.

MUSIC PRODUCTION

VP757

Either Semester – .50 Credit – Elective – 9, 10, 11, 12

Course Description: Students will learn how to use the computer, music synthesizer, and music software to listen, perform, and compose music. They will experience increases in computer knowledge, musical notation and composition and digital sequencing. Students will have the opportunity to create multimedia presentations using music, images, and video. This course may be taken as an introductory course leading to AP Music Theory.

AP MUSIC THEORY

VP756

All Year – 1 Credit (Grade Weighted) – Elective – 10, 11, 12

Prerequisite: See page 9.

Fees: See page 9 for AP Examination requirement at no cost.

Course Description: The AP Music Theory course roughly parallels the content of a first-year undergraduate music theory course. Significant critical, analytical, and creative thinking skills are fostered in the course, especially those involving the roles of texture, harmonic progression, formal structure, and style in composed music. AP examination questions emphasize the synthesis of musical knowledge into usable musical understanding. This course is recommended for students who are interested in a career in music, or those who have a strong aptitude and wish to take the AP Music Theory Exam for college credit.

BEGINNING TREBLE CHOIR

VP734

All Year – 1 Credit – Elective – 9

Course Description: This is the initial choral experience for all freshman girls and girls from other grades who are new to singing. Emphases are placed on fundamentals of vocal technique and music literacy (understanding music notation). The goal of the course is to provide each student with a wide variety of experiences so she has a solid musical foundation on which to build. The ensemble will be exposed to a variety of treble choir literature and will also have extensive study in pitch and rhythmic notation, solfeggio, sight-reading, ear training, and tone production. Attendance at all concerts is required.

CONCERT CHOIR

VP736

All Year – 1 Credit – Elective – 9, 10

Prerequisite: Approval of instructor

Course Description: Concert choir is designed to be a mixed ensemble. It is open to sophomore girls and freshman and sophomore boys. The course aims to improve each student's singing skills and overall musicianship. The Concert Choir will study and perform a wide variety of choral literature for mixed choruses and will have considerable study in sight-reading, solfeggio, ear training, and other experiences to improve musical literacy. Attendance at all concerts is required.

ADVANCED TREBLE CHOIR

VP735

All Year – 1 Credit – Elective – 11, 12

Prerequisite: Audition required. Admission based on vocal quality, musicianship, and voicing needed for choral balance.

Course Description: Advanced Treble Choir is open to junior and senior women. Students in this class study and perform advanced treble-voiced literature of a variety of styles and historical periods. Tone production of the maturing female voice and choral musicianship is focused on in this class. The curriculum includes an emphasis on musicianship skills such as sight-reading, solfeggio, ear training, and vocal independence. Advanced Treble Choir performs in school and in the community frequently during the year. Students enrolled in this course have the opportunity to audition for the extracurricular Vocal Jazz Ensemble. Students are encouraged to audition for the ILMEA Illinois All-State Chorus in the fall to enhance their musical development. Attendance at all concerts is required.

CHAMBER SINGERS

VP737

All Year - 1 Credit – Elective – 11, 12

Prerequisite: Audition required. Admission based on vocal quality, musicianship, and voicing needed for choral balance.

Fees: Required field trip fees and purchase of performance attire may be required.

Course Description: Chamber Singers is the top-level mixed chorus musical offering at ZBTHS. Chamber Singers is made up of singers from grades 11 and 12, and participation in this choir is determined by audition. The repertoire ranges from Renaissance to 20th century, sacred to secular, and a cappella to a varied means of accompaniment. In

addition to the literature being prepared for performance, there will be extensive work in further developing each student's singing, sight-reading, solfeggio, and tonal memory skills. The Chamber Singers perform in the school and in the community frequently during the year. Students enrolled in this course have the opportunity to audition for the extracurricular Vocal Jazz Ensemble, and students are encouraged to audition for the ILMEA Illinois All-State Chorus in the fall to enhance their musical development. Attendance at all concerts is required.

MUSIC SEMINAR

TBA

Either Semester – .50 Credit – Elective – 10, 11, 12 (May be repeated)

Prerequisite: Written approval of Music teacher and Division Chair.

Course Description: This course is designed for students wishing to obtain specialized Music credit. It includes an in-depth project in the seminar area of study. Students may repeat this course for elective credit with the consent of the instructor. Students interested in the following careers should consider the course: Music Education, Special Education, and Music Performance (instrumental or vocal).

WORLD LANGUAGE

In our society, the study of a second language is an important life skill to acquire not only for college purposes, but also for career development as well as for cultural enrichment. The opportunity to enroll in French, German, or Spanish and ASL further enhances communication skills in a verbal/non-verbal and written format. In acquiring a language, students learn to adapt to different cultures and experience literature, art, music and history. Although it is recommended that students be reading at or above grade level in order to succeed in a second language class, attitude, motivation and personal goals are often more important in determining a student's rate of success.

Dr. Jasey Kolarik, Department Head
847-731-9540 –kolarikj@zbths.org

FRENCH 1

WL351 - NCAA

All Year - 1 Credit – Elective - 9, 10, 11, 12

Prerequisite: The student should be reading at or above grade level.

Course Description: An introductory course in French that develops the skills of listening, speaking, reading, and writing. Emphasis is on speaking and listening using the communicative approach to teaching. Students have the opportunity to speak and hear French in class on a daily basis as they interact with classmates and the teacher. Course content will be presented through a variety of materials in the target language. Culture is an integral part of this course. Regular homework can be expected.

FRENCH 2

WL352 – NCAA

All Year - 1 Credit – Elective – 10, 11, 12

Prerequisite: French 1 and teacher recommendation.

Course Description: In this course students continue their study of the French language and of the target language culture. Emphasis is on speaking and listening using the communicative approach to teaching. Students have the opportunity to speak and hear French in class on a daily basis as they interact with classmates and the teacher. Course content will be presented through a variety of materials in the target language. Culture is an integral part of this course. This program provides students with the tools and the confidence to express themselves in French. Regular homework can be expected.

FRENCH 3

WL353 – NCAA

All Year - 1 Credit (Grade Weighted) - Elective – 11, 12

Prerequisite: French 2 and teacher recommendation.

Fees: Workbook to be purchased at schedule pickup (Approximately \$15).

Course Description: French 3 is designed for students who have successfully completed two years studying the rudiments of the French language and francophone culture. The goal of this course is to guide students as they transition from beginning French towards an intermediate level of language acquisition and proficiency. Class will be conducted in French. Students will continue to develop communication skills in French. Students will also further their study of French vocabulary and grammar and francophone culture as well as improve their reading comprehension and writing

skills in French. Cultural enrichment is offered via music, videos, articles, and other authentic materials pertinent to the current topics of study. Daily homework can be expected

FRENCH 4

WL354 – NCAA

All Year - 1 Credit (Grade Weighted) – Elective – 11, 12

Prerequisite: French 3 and teacher recommendation.

Fees: Readers, possible field trip fee, exceptional students may choose to do extra preparation outside of class in order to prepare for the AP French Language Exam.

Course Description: French 4 is designed for students who have successfully completed three years of French study and who are interested in deepening their understanding of the French language and francophone culture. The goal of this course is to guide students as they proceed to a higher level of language acquisition and proficiency. Class will be conducted in French so as to give students the best possible advantage as they strive to comprehend and communicate in French. Students will continue to deepen their knowledge of the French language via activities involving vocabulary, grammar, reading, writing, and speaking. Students will read various forms of literature such as novels, short stories, and magazine articles. Students will also focus on the art, geography, and history of francophone countries and regions. Cultural enrichment is offered on a daily basis via music, videos, articles, movies, and other materials pertinent to the current topics of study. Students may choose to do extra work outside of class in order to prepare for the AP French Language exam. Daily homework can be expected.

GERMAN 1

WL361 – NCAA

All Year - 1 Credit-Elective - 9, 10, 11, 12

Prerequisite: The student should be reading at or above grade level..

Course Description: This is an introductory course in German that develops the skills of listening, speaking, reading, and writing. Emphasis is on speaking and listening using the communicative approach to teaching. Students have the opportunity to speak and hear German in class on a daily basis as they interact with classmates and the teacher. Course content will be presented through a variety of materials in the target language. Culture is an integral part of this course. Regular homework can be expected.

GERMAN 2

WL362 – NCAA

All Year - 1 Credit - Elective – 10, 11, 12

Prerequisite: German 1 and teacher recommendation.

Course Description: In this course students continue their study of the German language and of the target language culture. Emphasis is on speaking and listening using the communicative approach to teaching. Students have the opportunity to speak and hear German in class on a daily basis as they interact with classmates and the teacher. Course content will be presented through a variety of materials in the target language. Culture is an integral part of this course. This program provides students with the tools and the confidence to express themselves in German. Regular homework can be expected.

GERMAN 3

WL363 – NCAA

All Year - 1 Credit (Grade Weighted) - Elective – 11, 12. Students may repeat this class once.

Prerequisite: German 2 and teacher recommendation.

Fees: Exceptional students may choose to do extra preparation outside of class in order to prepare for the AP German Language Exam. Workbook to be purchased at schedule pickup and/or novel, required purchase (approximately \$15-\$30). Possible field trip fee.

Course Description: This course is the continuation of the study of German speaking countries and their language. Major grammatical points and vocabulary not covered in German 1 and 2 will be covered through a variety of speaking and writing projects leading to fluency in the target language and a broadened knowledge of the cultures of German speaking cultures. Classes will be conducted entirely in German unless the instructor feels the need to facilitate understanding of grammatical points in English. Students will also have oral presentations and a variety of written projects, which will encourage creative use of the target language and culture. Course content will be presented through a variety of materials: textbook, worksheets, aural and visual aids (tapes, films, slides) and by practical experience. Cultural topics covered will include, but not be limited to, geography, history, music, customs, and contemporary life in German, Austrian, and Swiss society. Note: In order to accommodate both German 3 and 4 students, the curriculum will be on a two-year rotation. Preparation for the optional Advanced Placement Exam is provided. Daily homework can be expected.

GERMAN 4

WL364 – NCAA

All Year - 1 Credit (Grade Weighted) - Elective –12. Students may repeat this class once.

Prerequisite: German 3 and teacher recommendation.

Fees: Exceptional students may choose to do extra preparation outside of class in order to prepare for the AP German Language Exam. Workbook to be purchased at schedule pickup and/or novel, required purchase (approximately \$15-\$30). Possible field trip fee.

Course Description: This course is the continuation of the study of German speaking countries and their language. Major grammatical points and vocabulary not covered previously will be covered through a variety of speaking and writing projects leading to fluency in the target language and a broadened knowledge of the cultures of German speaking cultures. Classes will be conducted entirely in German unless the instructor feels the need to facilitate understanding of grammatical points in English. Students will also have oral presentations and a variety of written projects, which will encourage creative use of the target language and culture. Course content will be presented through a variety of materials: textbook, worksheets, aural and visual aids (tapes, films, slides) and by practical experience. Cultural topics covered will include, but not be limited to, geography, history, music, customs, and contemporary life in German, Austrian, and Swiss society. Note: In order to accommodate both German 3 and 4 students, the curriculum will be on a two-year rotation. Preparation for the optional Advanced Placement Exam is provided. Daily homework can be expected.

SPANISH 1

WL371 – NCAA

All Year - 1 Credit - Elective - 9, 10, 11, 12

Prerequisite: The student should be reading at or above grade level. This course is for students beginning their study of the Spanish language. It is NOT intended for students who communicate with their family in Spanish. Este curso es para estudiantes que no hablan español en su casa; es un curso principiante del idioma español..

Course Description: This is an introductory course in Spanish that develops the skills of listening, speaking, reading, and writing. Emphasis is on speaking and listening using the communicative approach to teaching. Students have the opportunity to speak and hear Spanish in class on a daily basis as they interact with classmates and the teacher. Course content will be presented through a variety of materials in the target language. Culture is an integral part of this course. Regular homework can be expected.

SPANISH 2

WL372 – NCAA

All Year - 1 Credit – Elective – 10, 11, 12

Prerequisite: Spanish 1 and teacher recommendation.

Course Description: In this course students continue their study of the Spanish language and of the target language culture. Emphasis is on speaking and listening using the communicative approach to teaching. Students have the opportunity to speak and hear Spanish in class on a daily basis as they interact with classmates and the teacher. Course content will be presented through a variety of materials in the target language. Culture is an integral part of this course. This program provides students with the tools and the confidence to express themselves in Spanish. Regular homework can be expected.

SPANISH 3

WL373 – NCAA

All Year - 1 Credit (Grade Weighted) - Elective – 11, 12

Prerequisite: Spanish 2 or Heritage Speakers Level 2

Fees: Possible field trip fee.

Course Description: This course is a continued study of the Spanish language and culture. The remaining major grammatical topics are covered to facilitate fluency in speaking and writing. All classes are conducted in Spanish, including the regular use of popular music. Students are expected to speak in Spanish during class. Various writing projects and oral presentations are integral parts of the curriculum. A more intensive study of cultural topics and history will be included. Frequent homework can be expected.

SPANISH 4

WL374 – NCAA

All Year - 1 Credit (Grade Weighted) - Elective - 12

Prerequisite: Spanish 3 or Heritage Speakers Level 2

Fees: Exceptional students may choose to do extra preparation outside of class in order to prepare for the AP Spanish Language Exam. Paperback. Possible field trip fee.

Course Description: Communication is conducted in Spanish. Students will continue to develop listening, speaking, reading, and writing skills. Various writing projects and oral presentations are integral parts of the curriculum. Course content will be presented through textbook and supplemental materials and aural and visual aids (CD's and videos). Areas of concentration include Spanish Art with an Internet project related to the artist as part of the curriculum. Other areas include: cultural topics, history and geography of Spain and Latin America, and music and contemporary life in Hispanic countries. Students will read a classic adaptation of "Don Quijote de la Mancha" and various Hispanic short stories. Students will have the opportunity to partake in the "World Language Fair." Preparation for the optional Advanced Placement Spanish Language Exam is provided. Daily homework can be expected.

AP SPANISH LANGUAGE AND CULTURE

WL370 – NCAA

All Year - 1 Credit (Grade Weighted) - Elective – 10, 11,12

Prerequisite: Heritage Speakers Level 2, Spanish 4, or Division Chair Approval

Fees: Exceptional students may choose to do extra preparation outside of class in order to prepare for the AP Spanish Language Exam at no cost. Paperback. Possible field trip fee.

Course Description: The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. This course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. The AP Spanish 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, practices, and perspectives.

AP Spanish Literature and Composition

WL377

All Year - 1 Credit (Grade Weighted)

Elective – 10, 11, 12

Prerequisite: AP Spanish Language and Culture or Division Chair Approval. See page 9.

Fees: Exceptional students may choose to do extra preparation outside of class in order to prepare for the AP Spanish Language Exam at no cost. Paperback. Possible field trip fee.

Course Description: AP Spanish Literature is equivalent to a college-level introductory survey course of literature written in Spanish. Students continue to develop their interpretive, interpersonal, and presentational skills in the Spanish language as well as critical reading and analytical writing as they explore short stories, novels, plays, essays, and poetry from Spain, Latin America, and U.S. Hispanic authors along with other non-required texts.

HERITAGE SPEAKERS, LEVEL 1

WL375 – NCAA

All Year – 1 Credit – Elective - 9, 10, 11, 12

Prerequisite: Students comprehend spoken Spanish and desire to develop their language skills in Spanish. **An oral placement test is required to determine academic level.**

Course Description: Heritage Speakers provides tools for deeper understanding of the Spanish language. Spanish is one of the top global languages. Students will study various Spanish-speaking countries and peoples to better understand their diverse cultures and idioms. Students will also begin to describe themselves and their daily routine, family and friends, and personal preferences. They will learn to speak, listen, read, and write Spanish with their classmates through paired practice, small group work, and role plays. By the end of this course, students will have been introduced to skills, knowledge, and attitudes that will help them live thoroughly and work productively in an increasingly Spanish speaking global society.

ESPAÑOL de HERENCIA HISPANA, NIVEL 1

WL375 – NCAA

Todo el año - 1 Crédito - Electivo - 9, 10, 11, 12

Prerequisitos: Los estudiantes comprenden el español hablado y desean desarrollar sus habilidades en español. **Se hace una prueba de aptitud oralmente para determinar colocación de nivel.**

Descripción del curso: La clase español de herencia hispana provee unidades temáticas y utensilios para obtener un aprendizaje profundo del idioma español. El idioma español es una de las lenguas más hablada globalmente. Los estudiantes estudiarán varios países y gente hispanohablantes para mejor entender sus diversas culturas y modismos. Los alumnos, también, describirán ellos mismos y sus vidas cotidianas, sus familias y amigos; sus preferencias propios. Los estudiantes aprenderán cómo hablar español más claro, distinguir dialectos junto con sus modismos y escribir mejor

en español. Se utilizará grupos pequeños y compañeros para realizar tareas y proyectos. Al final del curso; habilidades, conocimiento y actitudes se han sido introducidos a los estudiantes para ayudarles vivir profundamente y trabajar productivamente en una sociedad global hispanohablante.

HERITAGE SPEAKERS, LEVEL 2

WL376 – NCAA

All Year - 1 Credit - Elective - 9, 10, 11, 12

Prerequisite: Fluent Spanish speaking and comprehension skills with moderate reading and writing skills. An oral and written placement test or instructor's permission.

Course Description: This course is designed for those students who are able to speak and understand Spanish comfortably but need to develop further their reading and writing skills. An emphasis will be placed on learning correct grammar and proper writing skills while continuing the development of overall language fluency. Reading comprehension will be emphasized through extensive reading activities.

ESPAÑOL de HERENCIA HISPANA, NIVEL 2

WL376 – NCAA

Todo el año - 1 Crédito - Electivo - 9, 10, 11, 12

Prerequisitos: Hablar y entender el español con fluidez. Tener conocimiento en la lectura y escritura. Una evaluación oral para determinar el nivel de aptitud o permiso previo del /a instructor/a.

Descripción del curso: Este curso está diseñado para aquellos estudiantes que hablan y entienden el español moderadamente pero necesitan desarrollarlo más, especialmente la lectura y escritura. Se pondrá un énfasis en aprender la manera correcta de escribir el lenguaje, incluyendo la gramática. Se continuará el desarrollo total del idioma. Los alumnos leerán pasajes largos para enfatizar la comprensión y fluidez de lectura.

AMERICAN SIGN LANGUAGE 1 (ASL1)

WL381 – NCAA

All Year - 1 Credit – Elective - 9, 10, 11, 12

Course Description: This course provides students with an introduction to American Sign Language and to the culture of deaf people in America. Course emphasis will be on learning to understand signed conversation and properly signing conversational interactions. Students gain insight into American deaf culture and history is provided through class discussion, text materials, audio-visual presentations, and guest presenters. Students explore a variety of career options that require, or would benefit from, ability to communicate easily with deaf persons. This course may fulfill the foreign language entrance requirement for some colleges.

AMERICAN SIGN LANGUAGE 2 (ASL2)

WL382 – NCAA

All Year - 1 Credit – Elective - 10, 11, 12

Prerequisite: ASL 1

Course Description: This course is a continuation of the study of American Sign Language, the language used by deaf people in the United States. Students will also learn about deaf culture, since a language cannot be separated from its culture. In addition, this course may provide a less traditional language option for students who desire to pursue a language in high school. This course may fulfill the world language entrance requirement for some colleges.

AMERICAN SIGN LANGUAGE 3 (ASL3)

WL383 – NCAA

All Year - 1 Credit – Elective - 11, 12

Prerequisite: ASL 2

Course Description: This is a full-year course designed to provide students with the opportunity to advance their studies of American Sign Language. The study of American Sign Language is a cumulative experience beginning with students developing competent signing vocabulary, participating in exchanges, and developing an understanding of communication styles and grammatical structures. In this course, emphasis is placed on improving speed, fluency, expression, and grammar in order to develop independent conversation skills. This course will also introduce deaf idioms and their use within Deaf culture. Students will be encouraged to interact with Deaf people in social contexts and a variety of other situations.

AMERICAN SIGN LANGUAGE 3 (ASL4)

WL384 – NCAA Pending

All Year - 1 Credit – Elective - 11, 12

Prerequisite: ASL 3

Course Description: This is a full-year course designed to provide students with the opportunity to advance their studies of American Sign Language. The study of American Sign Language is a cumulative experience beginning with students

developing competent signing vocabulary, participating in exchanges, and developing an understanding of communication styles and grammatical structures. In this course, emphasis is placed on improving speed, fluency, expression, and grammar in order to develop independent conversation skills. This course will also introduce deaf idioms and their use within Deaf culture. Students will be encouraged to interact with Deaf people in social contexts and a variety of other situations.

WORLD LANGUAGE SEMINAR

TBA

Either Semester - .50 Credit - Elective – 11, 12

Students may repeat this class once.

Prerequisite: Must have written teacher and Division Chair approval.

Course Description: Designed for students wishing to obtain specialized World Language credit. Includes an in-depth project in the seminar area of study.

LAKE COUNTY TECH CAMPUS

The Lake County Tech Campus is an extension of the 22 high schools in Lake and McHenry counties and enjoys a strong partnership with the College of Lake County, offering many dual credit courses.

Training at the Tech Campus is “hands on”. Students gain skills by actually doing the work. Projects belong to real customers and the quality of students’ work is measured against industry standards. Student-oriented enterprises in Cosmetology, Automotive Service, Collision Repair and other programs provide real-world training that can lead directly to employment.

Learning at the Tech Campus is individualized. Students applying should be able to demonstrate 10th grade reading and math readiness. Students identify their career goals and receive guidance and instruction from their instructor as to how to reach those goals. The instructor is guided by current business and industry practices.

The Tech Campus strives to be a “School of Opportunity” offering excellence in teaching, technology, and partnerships. All classes and fees are subject to change.

Bukunmi Adeloje, LCTC Coordinator
847-731-9344 - AdelojeB@zbths.org

3D GAMING AND CYBERSECURITY

TC697

All Year – 3.0 Credits – Elective – 11, 12

Recommended: Mobile Apps & Coding

Fees: To be determined by Lake County Tech Campus

Course Description: Mobile Media Programmers become creative coders competent in applying interactive principles and theories to mobile and 3D game development. Students learn to think and act as innovators, adept at using a variety of technologies and processes to express ideas and solve gaming and mobile media design problems, as well as execute security measures to keep data secure. We prepare students to develop software applications and other interactive media for mobile devices such as: smartphone, tablets, and 3-D Game Applications that can run on a variety of platforms.

AUTOMOTIVE COLLISION REPAIR

TC659/6591

All Year - 3.0 Credits - Elective – 11, 12

Recommended: Metals 1 & 2

Fees: To be determined by Lake County Tech Campus

Course Description: This program provides students with the fundamental skills of the automotive collision repair industry. Instruction in the program emphasizes both the repair and the refinishing skills associated with restoring a damaged automobile to factory specifications. Using an industry-endorsed curriculum, students will develop core skills in automobile construction, sheet metal damage repair, MIG welding, and basic refinishing. Upon mastery of the skills in core areas, students will gain skills in damage estimating, shop management, heavy collision repair, and finish matching.

AUTOMOTIVE SERVICE

TC670/6702

All Year – 3.0 Credits - Elective – 11, 12

Recommended: Power Mechanics

Fees: To be determined by Lake County Tech Campus

Course Description: This program will provide students with a solid foundation of skills to enter the automotive service industry. Training in the program emphasizes the development of skills in the core service areas utilizing factory procedures and industry standards in the school's fully operational repair shop. Instruction will feature training on brakes, steering and suspension, electrical systems, and engine performance. Upon successful completion of this program, students will be prepared to take the ASE (Automotive Service Excellence) certification exams in the areas emphasized in the program.

BIOMEDICAL SCIENCE I

TC640

All Year - 3.0 Credits - Elective – 11, 12

Recommended: Human Anatomy & Physiology

Fees: To be determined by Lake County Tech Campus

Course Description: Students will get an introduction to biomedical science through exciting hands-on projects and problems that focus on these semester topics.

Sem. I—Principles of Biomedical Science

Students will study various health conditions including heart disease, diabetes and sickle-cell disease, among others. They will work to investigate the causes of these diseases and how they may ultimately lead to illness and harm. This course covers topics related to human physiology and medicine, and serves as a basis for all other Biomedical Sciences courses.

Sem. II—Human Body Systems

Students will explore the human body and discover how all systems relate and connect to each other. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions, such as muscle movement, reflect and voluntary action, and respiration. Students will build organs and tissues on a skeletal model, perform four organ dissections, examine medical cases, and help solve medical mysteries.

BIOMEDICAL SCIENCE II

TC642

All Year - 3.0 Credits - Elective – 12

Prerequisite: Biomedical Science I

Fees: To be determined by Lake County Tech Campus

Course Description: Students will study the pathology and treatment plan of various diseases. Students will then complete a culminating project addressing challenges in our current health system.

Sem. I—Medical Intervention

Students will investigate how to prevent, diagnose, and treat diseases. They will 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. Examining real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Sem. II—Biomedical Innovation

Students design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. Students will work on an independent project with a mentor or advisor from a university, medical facility, or research institution.

CERTIFIED NURSE ASSISTING

TC653

All Year - 3.0 Credits - Elective - 12

Recommended: Medical Assisting or Biomedical Science

Fees: To be determined by Lake County Tech Campus

Course Description: This program is designed to prepare students for employment as nurse assistants and for future entry into nursing education programs. This program leads to a CNA certification. Training will include the development of basic nursing and cardiopulmonary resuscitation skills through lecture, laboratory demonstrations, laboratory practice, and clinical experience. Instruction in this program includes a minimum of forty clinical hours held

in long-term facilities in the community. Upon successful completion of this program, students will be eligible to take the written examination for the nurse assistant state certification.

COMPUTER INTEGRATED MANUFACTURING (CIM) & CIVIL ENGINEERING AND ARCHITECTURE (CEA) TC694

All Year - 3.0 Credits - Elective – 11, 12

Prerequisite: Engineering Technology or Robotics & Automation

Recommended: Pre-Architecture, 3D Modeling, or Engineering and Architecture

Course Description: Students are encouraged to pursue side projects in their spare time focusing on these semester topics.

Sem. I—Computer Integrated Manufacturing

Students learn about the history of manufacturing, robotics and automation, manufacturing processes, computer modeling, manufacturing equipment, and flexible manufacturing systems. Students will continue to build systems using the Vex Robotics materials and RobotC software. Students will learn to program and operate a CNC machine.

Sem. II—Civil Engineering Architecture

Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. In addition, students use Revit 3D design software to design and document solutions for major course projects.

COMPUTER SUPPORT SERVICES TC680/6801

All Year - 3.0 Credits - Elective – 11, 12

Recommended: Math 1 & 2

Fees: To be determined by Lake County Tech Campus

Course Description: This program will prepare students for careers in the computer field. Students will install, maintain, upgrade, and repair computer hardware & software on workstations and network systems. This program will prepare students for the A+ Certification Exam. Upon successful completion of this program, students will be able to diagnose hardware or software failures and perform the actions necessary to correct the problems based on knowledge of the system's operation.

CONSTRUCTION SKILLS & MANAGEMENT TC682/6822

All Year – 3.0 Credits - Elective – 11, 12

Recommended: Math 1 & 2, Woods, Electricity and Electronics, or 3D Modeling

Fees: To be determined by Lake County Tech Campus

Course Description: This course provides students with an introduction to careers in the field of architecture, construction contracting, and civil engineering technology, including surveying. The program offers an overview and analysis of conventional construction methods with a focus on carpentry, HVAC, electrical, plumbing, environmental impacts on construction and overall construction safety. The hands-on use of building materials and tools in various construction systems is emphasized, including basic design of temporary structures. To further enrich students' experience, case studies and guest speakers are utilized to expose students to various professions and careers in the field. The course also provides students with resources for interdisciplinary academic success. In the second year, students will be involved in all phases of planning and scheduling from the process of listing and sequencing to the development of the more complicated critical path network. safety, oxy-fuel welding and burning, GMAW, FCAW, SMAW, GTAW, plasma arc cutting, and automatic shape cutting. Layout and fit-up, blueprint reading, and weld symbols are used to fabricate a variety of metal projects. The American Welding Society (AWS) recognizes the Tech Campus Welding program as an AWS SENSE Member.

COSMETOLOGY TC657/6572

All Year – 4.0 Credits – Elective – 11, 12 - must be taken for 2 years

Recommended: Math 1 & 2, Chemistry

Fees: To be determined by Lake County Tech Campus

Course Description: The Tech Campus offers a Cosmetology program that includes nail technology. Students will acquire the 1500 hours of experience required for licensing while learning how to perform shampoos, make-overs, facials, hair-styling, manicuring, sculptured nails, permanent waving, hair coloring, and cutting. Students will also learn 21st Century soft skills like putting together a resume and cover letter. Following the lab phase of the program, students

will reinforce their training by working on clients in the Tech Campus Creations Salon.

CRIMINAL JUSTICE

TC 690

All Year - 3.0 Credits - Elective - 12

Prerequisite: Clean discipline record and a police background check.

Fees: To be determined by Lake County Tech Campus

Course Description: This program prepares students for a career in the Criminal Justice field. Using constitution and current laws, students will gain the police skills and legal knowledge needed to take a case from investigations to arrests and through the court trial process, finishing with corrections. Additional areas of interest will include current and past court cases, along with role play opportunities. Students will be put through police scenarios and mock trials to ensure they know every aspect of the criminal justice system.

CULINARY ARTS

TC656/6562

All Year - 3.0 Credits - Elective – 11, 12

Recommended: Introduction to Foods & Nutrition, Menu Planning & Entertainment.

Fees: To be determined by Lake County Tech Campus

Course Description: This program provides students with college level technical skills in food production and food operations and will prepare students for higher education in Hospitality and Culinary Management. Students will gain skills and knowledge in cold and hot food preparation, nutrition, baking, pastry, menu planning, sanitation, equipment operation, inventory control, purchasing, and front -of - the-house customer service skills. Skills will be practiced in planning, organizing, and preparing culinary creations for special events, competitions and the Tech Campus Deli.

EARLY EDUCATION AND TEACHING

TC655/6551

All Year - 3.0 Credits - Elective – 11, 12

Recommended: Early Childhood Studies; Family Relations and Parenting; Introduction to Teaching

Fees: To be determined by Lake County Tech Campus

Course Description: This program is designed to prepare students for a variety of careers serving children. Students will develop skills to plan and implement age-appropriate activities in one of the two operating preschool labs. These skills include developing educational activities for the preschool children in creative arts, math, science, music, and language. Instruction will focus on the positive guidance of child behavior and all aspects of their development.

EMERGENCY MEDICAL SERVICES

TC651

All Year - 3.0 Credits - Elective – 12

Prerequisite: Math 1 & 2, Chemistry or concurrent enrollment in Chemistry

Fees: To be determined by Lake County Tech Campus

Course Description: This program prepares students to take the licensure examination of the Illinois Department of Public Health to become an EMT-B. Activities include clinical experiences in a hospital emergency room and ride-alongs with local Fire/EMS departments. Students will learn American Heart Association Healthcare Provider CPR, patient assessment, stabilization, and initial pre-hospital medical treatment of injured and ill patients.

ENGINEERING TECHNOLOGY (IED/POE)

TC692

All Year - 3.0 Credits - Elective – 11, 12

Prerequisite: Passed Math 1 & 2 with a “C” or higher

Recommended: Pre-Architecture, 3D Modeling, or Engineering and Architecture

Course Description: Students are encouraged to pursue side projects in their spare time focusing on these semester topics.

Sem. I—Introduction to Engineering Design

Discover the roles of an engineer and engineering technician in taking an idea from design to manufacturing or production. Using Inventor- 3D design software from AutoDesk – work on projects, activities, and problems that have global and human impacts. Working in teams, students will design and improve products, document solutions, and communicate to others. Students will learn to use 3D Printers and a Laser Engraver. This course includes about 70% computer work and 30% hands-on activities.

Sem. II—Principles of Engineering

Master basic concepts needed to continue your education in engineering or engineering technology – then apply them!

Students will build simple and compound machines, electric circuits, power systems, hydraulic systems, and control systems that include Vex robotics materials and RobotC software. This course includes about 60% hands-on projects and 40% computer work and engineering math applications.

FIREFIGHTING

TC686

All Year - 3.0 Credits - Elective – 11, 12

Recommended: Math 1 & 2

Helpful Course: Chemistry

Fees: To be determined by Lake County Tech Campus

Course Description: This program is designed to prepare students for entry-level firefighter positions. Skills taught are: understanding fire chemistry, wearing personal protective clothing, identifying ropes, tying knots, using fire extinguishers, performing forcible entry, carrying and raising ladders, operating self-contained breathing apparatus, employing search and rescue techniques, working with ventilation tools, and practicing hose evolutions on an operating fire engine. Leadership and communication skills help prepare the student for future certification.

GAME PROGRAMMING AND VIRTUALIZATION

TC679

All Year – 3.0 Credits – Elective – 11, 12

Fees: To be determined by Lake County Tech Campus

Course Description: This program is designed to provide instruction in the computer science field. Students will be able to develop video games and professional programs using realistic hands-on interdisciplinary exercises. The game programming curriculum will focus on industry standard coding languages. Additional training will cover 2D and 3D animation. Additionally, students will work with virtual reality technologies providing experience in virtualizations allowing complex data or situations in a simulated real-world application.

INDUSTRIAL TECHNOLOGY

TC111/111

All Year – 3.0 Credits - Elective – 11, 12

Fees: To be determined by Lake County Tech Campus

Course Description: This program focuses on preparing students to work in the modern Manufacturing Environment. The program helps develop hands-on skills in maintenance, repair, and operation of machinery in high technology industrial settings. Students will gain hands-on experience in Hydraulics, Machine Alignment, electricity, and mechanical fundamentals. This is a great opportunity for students interested in working in the Manufacturing companies, construction companies, welding/fabrication shops, and machine shops.

LASER TECHNOLOGY

TC691

All Year - 3.0 Credits - Elective – 11, 12

Prerequisite: Math 1, 2, & 3 or concurrent enrollment in Math 3.

Fees: To be determined by Lake County Tech Campus

Course Description: This program will offer students hands-on learning with state-of-the art optical and laser equipment. Laser Technology, called Photonics, is the process of generating and harnessing light and other forms of radiant energy whose quantum unit is the photon. Photonics involves cutting-edge uses of lasers, optics, fiber-optics, and electro-optical devices in numerous and diverse fields of technology, manufacturing, health, telecommunication, environment monitoring, homeland security, aerospace, green construction and many others.

LAW ENFORCEMENT AND CRIME SCENE INVESTIGATION

TC6901

All Year – 3.0 Credits - Elective – 11, 12

Prerequisite: Clean discipline record and a police background check.

Fees: To be determined by Lake County Tech Campus

Course Description: This program prepares students for careers in the policing field. The class will focus on police procedures that are standard to a new police officer and the steps that are necessary to continue on in this career. The class will also explore basic crime scene investigation, Interview and interrogation methods, and a study of criminal investigation

MACHINING TECHNOLOGY

TC658

All Year - 3.0 Credits - Elective – 11, 12

Recommended: Metals 1 & 2; Machine Trades Blueprint Reading

Fees: To be determined by Lake County Tech Campus

Course Description: Virtually all manufactured products depend on precision machining. This course meets the demands of employers for training in this specialized field of metal cutting operations for the creation of machined parts, specialized tooling molds, dies and prototypes. Students will learn to setup and operate metal cutting machines, to read and interpret blueprints, use lathes, milling and CNC machines, and precision measuring instruments. Students will develop knowledge and skills necessary to produce competent workers who are immediately employable in this high demand job area.

MEDICAL ASSISTING

TC564

All Year - 3.0 Credits - Elective – 11, 12

Recommended: Math 1 & 2, Biology

Fees: To be determined by Lake County Tech Campus

Course Description: This program introduces students to a wide variety of careers in the allied health field including medical lab technician, medical assistant, and medical office professional. Training will include medical terminology, communication, body structure and function, vital sign measurement, principles of infection control, medical instrumentation, pharmacy technology, medical office assistant certification procedures, and microscope usage.

MULTIMEDIA DESIGN

TC663/6632

All Year - 3.0 Credits - Elective – 11, 12

Recommended: Printing, Graphic Arts and Design, and/or Photography

Fees: To be determined by Lake County Tech Campus

Course Description: This program prepares students for a variety of design careers in photography, desktop publishing, graphic design, entry-level animation, and digital film editing. Students will design and produce a variety of print and digital media utilizing a variety of software applications including but not limited to: Adobe Illustrator, Adobe Photoshop, Adobe InDesign and Adobe Premier.

WELDING & FABRICATION

TC667/6671

All Year - 3.0 Credits - Elective – 11, 12

Recommended: Metals 1 & 2, Machine Trades Blueprint Reading

Fees: To be determined by Lake County Tech Campus

Course Description: This program provides hands-on experiences gained from extensive practice and application of knowledge in shop safety, oxy-fuel welding and burning, GMAW, FCAW, SMAW, GTAW, plasma arc cutting, and automatic shape cutting. Layout and fit-up, blueprint reading, and weld symbols are used to fabricate a variety of metal projects. The American Welding Society (AWS) recognizes the Tech Campus Welding program as an AWS SENSE Member.

CAREER CLUSTERS

Opportunities after high school are endless for those who prepare well. Students who plan their high school years wisely and take advantage of the learning opportunities extended to them during high school are better able to determine their college and career pursuits with confidence. In addition, those students who apply themselves in high school by taking and completing challenging courses position themselves well to take advantage of a variety of college and career opportunities upon graduation.

The following pages provide students with a better understanding of the various careers that are available today. Careers are listed by “cluster” so that students may explore a wide range of options associated with their interests. Information regarding which high school courses students should take to prepare well for a particular field and various associated college majors and programs are also included.

CLUSTERS

- Agriculture, Food & Natural Resources
- Architecture & Construction
- Arts, Audio Visual Technology & Communication
- Business, Management, Marketing & Finance
- Education & Training
- Health Science
- Hospitality
- Human Services
- Information Technology
- Law & Public Safety
- Manufacturing
- Science, Technology, Engineering & Mathematics
- Service Technologies

CAREER CLUSTER: Agriculture, Food & Natural Resources

Careers	Architect Builder Carpenter Civil Engineer Construction Contractor Foreman/Manager	Demolition Engineer Drafter Drywaller Electrician Electrical Systems Tech Equipment Material Manager	HVAC Mechanic Plumber Project Inspector Roofer Sheet Metal Worker Tile Setter	
Required Courses	9th grade	10th grade	11th grade	12th grade
	English 1 Math 1 (or higher) Biology Social Studies PE, Health	English 2 Math 2 (or higher) Chemistry Continental Studies PE Personal Finance	American Literature Math 3 (or higher) Earth Science US History PE	English Elective Government PE
Recommended or related pathway courses offered at ZB	Woods 1 & 2 Metals 1 & 2 3-D Modeling Pre-Architecture Electronics 1 & 2	Woods 1 & 2 Metals 1 & 2 3-D Modeling Pre-Architecture Electronics 1 & 2 Personal Finance	Woods 1 & 2 Metals 1 & 2 3-D Modeling Pre-Architecture Electronics 1 & 2 Engin/Architecture Intro to Carpentry Applied Math Personal Finance DC Machine Trades Blueprint Reading Microsoft Office Specialist Prep.	Woods 1 & 2 Metals 1 & 2 3-D Modeling Pre-Architecture Electronics 1 & 2 Engin/Architecture Intro to Carpentry Applied Math Pre-Calculus Pre-Calculus Honors AP Calculus AP Physics Personal Finance DC Machine Trades Blueprint Reading Microsoft Office Specialist Prep
Tech Campus related pathway courses			Construction Skills & Management Computer Integrated Manufacturing & Civil Civil Engin/Architecture Welding & Fabrication Engin. Technology	Construction Skills & Management Computer Integrated Manufacturing & Civil Engin/Architecture Welding & Fabrication Engin. Technology
4 year College Majors	Architecture/Building Sciences Architectural Drafting Architectural Engineering Architectural History/Critic Architectural Tech Architect Building Construction		Building Management Civil Engineering Construction Management Drafting/Design Tech Energy Management Landscape Architecture Mechanical Drafting	
CLC Programs	Architectural Tech CAD Drafting Tech Civil Engineering Tech Construction Management Tech		Electrical Engineering Tech HVAC Tech Welding	

CAREER CLUSTER: Architecture & Construction

Careers	Architect Builder Carpenter Civil Engineer Construction Contractor Foreman/Manager	Demolition Engineer Drafter Drywaller Electrician Electrical Systems Tech Equipment Material Manager	HVAC Mechanic Plumber Project Inspector Roofer Sheet Metal Worker Tile Setter	
Required Courses	9th grade	10th grade	11th grade	12th grade
	English 1 Math 1 (or higher) Biology Social Studies PE, Health	English 2 Math 2 (or higher) Chemistry Continental Studies PE Personal Finance	American Literature Math 3 (or higher) Physics US History PE	English Elective Government PE
Recommended or related pathway courses offered at ZB	Woods 1 & 2 Metals 1 & 2 3-D Modeling Pre-Architecture Electronics 1 & 2	Woods 1 & 2 Metals 1 & 2 3-D Modeling Pre-Architecture Electronics 1 & 2 Personal Finance	Woods 1 & 2 Metals 1 & 2 3-D Modeling Pre-Architecture Electronics 1 & 2 Engin/Architecture Intro to Carpentry Applied Math Personal Finance DC Machine Trades Blueprint Reading Microsoft Office Specialist Prep.	Woods 1 & 2 Metals 1 & 2 3-D Modeling Pre-Architecture Electronics 1 & 2 Engin/Architecture Intro to Carpentry Applied Math Pre-Calculus Pre-Calculus Honors AP Calculus AP Physics Personal Finance DC Machine Trades Blueprint Reading Microsoft Office Specialist Prep
Tech Campus related pathway courses			Construction Skills & Management Computer Integrated Manufacturing & Civil Civil Engin/Architecture Welding & Fabrication Engin. Technology	Construction Skills & Management Computer Integrated Manufacturing & Civil Civil Engin/Architecture Welding & Fabrication Engin. Technology
4 year College Majors	Architecture/Building Sciences Architectural Drafting Architectural Engineering Architectural History/Critic Architectural Tech Architect Building Construction		Building Management Civil Engineering Construction Management Drafting/Design Tech Energy Management Landscape Architecture Mechanical Drafting	
CLC Programs	Architectural Tech CAD Drafting Tech Civil Engineering Tech Construction Management Tech		Electrical Engineering Tech HVAC Tech Welding	

CAREER CLUSTER: Arts, Audio Visual Technology & Communication

Careers	Acting Art Director Artist Audio Video Operator Broadcast Technician Computer Animator	Editor Fashion Designer Furnishing Coordinator Interior Design Journalist Musician	Publisher Producer Radio & Television Announcer Reporter Researcher Writer	
Required Courses	9th grade	10th grade	11th grade	12th grade
	English 1 Math 1 (or higher) Biology Social Studies PE, Health	English 2 Math 2 (or higher) Chemistry Continental Studies PE Personal Finance	American Literature Math 3 (or higher) Physics, Earth Science US History PE	English Elective Government PE
Recommended or related pathway courses offered at ZB	Yearbook Journalism Intro to Television Television Intro to Art 3D Sculpture 1 & 2 Ceramics 1 & 2 Graph Art Design 1 & 2 Drawing 1 & 2 Jewelry 1 & 2 Painting 1 & 2 Acting 1 & 2 Beginning Guitar Symphonic Band Percussion Concert Band 1 & 2 Beginning Treble Choir Concert Choir Sweet Harmony Singers Chamber Singers Music Production Intro to Theatrical Production Theatrical Production Seminar Introduction to Piano	Yearbook Journalism Intro to Television Television ZB TV Media Prod Intro to Art 3D Sculpture 1 & 2 Ceramics 1 & 2 Graph Art Design 1 & 2 Drawing 1 & 2 Jewelry 1 & 2 Painting 1 & 2 Acting 1, 2, 3 Beginning Guitar Symphonic Band Percussion Concert Band 1 & 2 Concert Choir Music Production Intro to Theatrical Production Theatrical Production Seminar Introduction to Piano	Journalism Yearbook Creative Writing 1 & 2 Rhetoric & Comp Public Speaking Digital Media Photography Intro to Art 3D Sculpture 1 & 2 Ceramics 1 & 2 Graph Art Design 1 & 2 Drawing 1 & 2 Jewelry 1 & 2 Painting 1 & 2 Acting 1, 2, 3 Beginning Guitar Symphonic Band Percussion Concert Band 1 & 2 Adv. Treble Choir Chamber Singers AP Music Theory Music Production Microsoft Office Specialist Prep. Intro to Theatrical Production Theatrical Production Seminar Introduction to Piano	AP Studio Art Journalism Yearbook Creative Writing 1&2 Rhetoric & Comp Public Speaking Digital Media Photography Intro to Art 3D Sculpture 1 & 2 Ceramics 1 & 2 Graph Art Design 1 & 2 Drawing 1 & 2 Jewelry 1 & 2 Painting 1 & 2 Acting 1, 2, 3 Beginning Guitar Symphonic Band Percussion Concert Band 1 & 2 Adv. Treble Choir Chamber Singers AP Music Theory Music Production Intro to Theatrical Production Theatrical Production Seminar Introduction to Piano
Tech Campus related pathway courses			Multimedia Design	Multimedia Design
4 year college majors	Acting Applied Arts Cinematography Creative Writing Commercial Photography Fashion/Apparel Design Film/Cinema/Video Studies Graphic Design	Illustration Journalism Interior Design Music Music Technology Publishing Photographic & Film	Radio & Television Radio, Television & Digital Communication Speech Communications Technical & Business Writing Theater Visual Performing Arts Video Technology	
CLC Programs	English Journalism Art Theater		Music Digital Media & Design Digital A/V Production & Editing Technical Communication	

CAREER CLUSTER: Business, Management, Marketing & Finance

Careers	Actuary Administrative Assistant Advertising Sales Auditor Business Consultant Certified Public Accountant	Corporate Trainer Economist Logistics/Supply Chain Manager Entrepreneur Finance Director Human Resources Manager	Office Manager Personnel Recruiter Public Relations Manager Sales Representative Wholesale/Retail Buyer Marketing Analyst	
Required Courses	9th grade	10th grade	11th grade	12th grade
	English 1 Math 1 (or higher) Biology Social Studies PE, Health	English 2 Math 2 (or higher) Chemistry Continental Studies PE Personal Finance	American Literature Math 3 (or higher) Physics, Earth Science US History PE	English Elective Government PE
Recommended or related pathway courses offered at ZB	Business Concepts	Public Speaking Business Concepts Personal Finance	Sociology Accounting Sports & Entertainment Marketing Owning & Operating a Bus. Business Concepts Business Law Mobil Apps & Coding Public Speaking Life Management Introduction to Business Personal Finance Microsoft Office Specialist Prep	Pre-Calculus Pre-Calculus Honors AP Calculus AP Statistics Applied Math Psychology 1 & 2 Sociology 1 & 2 AP Psychology Accounting Sports & Entertainment Marketing Owning & Operating a Bus. Business Concepts Business Law Mobil Apps & Coding Public Speaking Life Management Introduction to Business Personal Finance Microsoft Office Specialist Prep.
Tech Campus related courses			Multimedia Design	Multimedia Design
4 year College Majors	Actuarial Science Accounting Advertising Arts Management Business Administration Entrepreneurship	Human Resources Finance International Business Marketing Public Relations & Communication	Purchasing/Procurement Logistics/Supply Chain Management Info Systems Operations Management Organizational Behavior Organizational Leadership	
CLC Programs	Accounting Administrative Office Systems Supervision		Small Business Management Sales Marketing	

CAREER CLUSTER: Education & Training

Careers	Administrator Child Care Worker Coach College/University Faculty Counselor	Curriculum Director Elementary Teacher Middle School Teacher High School Teacher Principal	Special Education Teacher Librarian Paraprofessional Educator	
Required Courses	9th grade	10th grade	11th grade	12th grade
	English 1 Math 1 (or higher) Biology Social Studies PE, Health	English 2 Math 2 (or higher) Chemistry Continental Studies PE Personal Finance	American Literature Math 3 (or higher) Physics, Earth Science US History PE	English Elective Government PE
Recommended or related pathway courses offered at ZB		Family Relations & Parenting Early Child. Studies Integrated PE Life Management Microsoft Office Specialist Prep	Sociology 1 & 2 Family Relations & Parenting Early Child. Studies Integrated PE Life Management Microsoft Office Specialist Prep Introduction to Teaching	Family Relations & Parenting Early Child. Studies Applied Math Pre-Calculus Calculus AP Calculus Sociology 1 & 2 Psychology 1 & 2 AP Psychology Public Speaking Integrated PE Life Management Microsoft Office Specialist Prep Introduction to Teaching
Tech Campus related pathway courses			Early Education and Teaching	Early Education and Teaching
4 year college majors	Education Early Childhood Education Educational Administration Elementary Education Coaching		Kindergarten/Preschool Education School Library Specialist/Science Special Education Teaching Secondary Education	
CLC Programs	Early Childhood Education Paraprofessional Education Human Services Library Technical Assistant			

CAREER CLUSTER: Health Science

Careers	Athletic Trainer Biostatistician Dental Assist./Hygienist EMT/Paramedic Health Administrator Geneticist	Health Information Coder Laboratory Technician Nutritionist/Dietician Occupational Therapist Optometrist Research Scientist	Phlebotomist Physician Physician's Assistant Radiographer Physical Therapist Registered Nurse	
Required Courses	9th grade	10th grade	11th grade	12th grade
	English 1 Math 1 (or higher) Biology Social Studies PE, Health	English 2 Math 2 (or higher) Chemistry Continental Studies PE Personal Finance	American Literature Math 3 (or higher) Physics, AP Biology, AP Chemistry US History PE	English Elective Government PE AP Biology, AP Chemistry
Recommended or related pathway courses offered at ZB		Introduction Foods & Nutrition Menu Planning & Entertaining Family Relations & Parenting Early Child. Studies Integrated PE	Introduction Foods & Nutrition Menu Planning & Entertaining Family Relations & Parenting Early Child. Studies Sociology 1 & 2 Integrated PE Human Anatomy & Physiology	Introduction Foods & Nutrition Menu Planning & Entertaining Family Relations & Parenting Early Child. Studies Sociology 1 & 2 Human Anatomy & Physiology Psychology 1 & 2 AP Psychology AP Biology AP Chemistry AP Physics Applied Math Pre-Calculus Pre-Calculus Honors AP Calculus Integrated PE
Tech Campus related pathway courses			Medical Assisting Certified Nurse Assisting\ Biomedical Science	Medical Assisting Certified Nurse Assisting Emergency Medical Services Biomedical Science
4 year college majors	Athletic Training Audiology Bioethics Biotechnology Clinical Nutrition/Dietetics Clinical Lab Science	Cognitive Psychology Genetic Counseling Health Administration Hospital/Care Administration Kinesiology/Movement Science	Nursing Occupational Therapy Pharmaceutical Science Public Health Physical Therapy	
CLC Programs	Nursing Phlebotomy Technician Surgical Technician Dental Hygiene	Emergency Medical Technician Personal Trng. Health Information Technician Pharmaceutical Technician	Wellness Coach Medical Imaging Medical Assisting Massage Therapy	

CAREER CLUSTER: Hospitality

Careers	Baker Caterer Concierge Convention Services Manager	Event Planner Executive Chef Facilities Manager Hotel Management	Restaurant Owner/Manager Tour & Travel Guide Travel Agent	
Required Courses	9th grade	10th grade	11th grade	12th grade
	English 1 Math 1 (or higher) Biology Social Studies PE, Health	English 2 Math 2 (or higher) Chemistry Continental Studies PE Personal Finance	American Literature Math 3 (or higher) Physics, Earth Science US History PE	English Elective Government PE
Recommended or related pathway courses offered at ZB	Business Concepts Sports & Entertainment Marketing	Introduction Foods & Nutrition Menu Planning & Entertaining Business Concepts Sports & Entertainment Marketing	Introduction Foods & Nutrition Menu Planning & Entertaining Business Law Business Concepts Introduction to Business (Dual Credit) Owning & Operating a Bus. Marketing Mobil Apps & Coding Sports & Entertainment Marketing Microsoft Office Specialist Prep	Introduction Foods & Nutrition Menu Planning & Entertaining Business Law Business Concepts Introduction to Business (Dual Credit) Owning & Operating a Bus. Marketing Mobil Apps & Coding Sports & Entertainment Marketing Microsoft Office Specialist Prep
Tech Campus related pathway courses 4 year college majors			Culinary Arts	Culinary Arts
	Facilities Planning & Management Natural Resources Recreation & Tourism Hospitality & Culinary Management Culinary Arts			
CLC Programs	Hospitality & Culinary Management Baking and Pastry Assistant Professional Cook		Professional Chef Hospitality Supervisor Hospitality Manager	

CAREER CLUSTER: Human Services

Careers	Community Service Dir. Cosmetologist Director of Child Care Facility	Emergency Relief Worker Massage Therapy Personal Fitness Trainer Licensed Professional Counselor	School Counselor/ Psychologist Social Worker	
Required Courses	9th grade	10th grade	11th grade	12th grade
	English 1 Math 1(or higher) Biology Social Studies PE, Health	English 2 Math 2 (or higher) Chemistry Continental Studies PE Personal Finance	American Literature Math 3 (or higher) Physics US History PE	English Elective Government PE
Recommended or related pathway courses offered at ZB	Spanish 1	Spanish 2 Athletic Training Integrated PE Family Relations & Parenting Early Child. Studies AP Spanish Language and Culture AP Spanish Literature and Composition	Spanish 3 Sociology 1 & 2 Athletic Training Integrated PE Family Relations & Parenting Early Child. Studies AP Spanish Language and Culture AP Spanish Literature and Composition Microsoft Office Specialist Prep Introduction to Teaching	Spanish 4 AP Spanish Language and Culture AP Spanish Literature and Composition Psychology 1 & 2 Sociology 1 & 2 Athletic Training Integrated PE Family Relations & Parenting Early Child. Studies Microsoft Office Specialist Prep. Introduction to Teaching
Tech Campus related pathway courses			Cosmetology Early Education and Teaching	Cosmetology Early Education and Teaching
4 year college majors	Child Development Family & Community Services Family & Consumer Sciences Mental Health Counseling Social Work		Psychologist Sociology Athletic Trainer Wellness	
CLC Programs	Social Work Children Adolescents Adult Services Massage Therapy		Alcohol, Substance Abuse & Addictive Disorders Correctional Counseling Trauma, Prevention and Victim Services	

CAREER CLUSTER: Information Technology

Careers	Animator Database Administrator Data Systems Design Game Developer IT Engineer Computer Forensics	Media Specialist Network Administrator Network Security Analyst Telecommunications Network Tech	PC Support Specialist Programmer Software Application Specialist Systems Administrator Web Architect/Designer	
Required Courses	9th grade	10th grade	11th grade	12th grade
	English 1 Math 1 (or higher) Biology Social Studies PE, Health	English 2 Math 2 (or higher) Chemistry Continental Studies PE Personal Finance (Class of 2023 & 2024)	American Lit Math 3 (or higher) Physics US History PE	English Elective Government PE
Recommended or related pathway courses offered at ZB	Electronics 1 & 2	Electronics 1 & 2	Electronics 1 & 2 Sociology 1 & 2 Microsoft Office Specialist Prep	Electronics 1 & 2 Applied Math Pre-Calculus Pre-Calculus Honors AP Calculus AP Computer Science Sociology 1 & 2 Psychology 1 & 2 AP Psychology Public Speaking Microsoft Office Specialist Prep
Tech Campus related pathway courses			Game Programming and Virtualization Computer Support Services Multimedia Design 3D Gaming and Cybersecurity	Game Programming and Virtualization Computer Support Services Multimedia Design Robotics and Automation 3D Gaming and Cybersecurity
4 year College Majors	Computer Forensics Artificial Intelligence Computer Info Systems Computer Engineering Computer Programming		Computer Science Computer Software Applications Digital Arts Game/Interactive Media Design Information Technology	
CLC Programs	Digital Media Web Programmer Computer forensics Network Administration Security Administration		Office Application Specialist Desktop Support Tech C++ Programming Game Development Cisco Networking	

CAREER CLUSTER: Law & Public Safety

Careers	Corporate Security Manager Firefighter Lawyer Corrections Officer Hazardous Materials Responder	Paralegal Court Reporter Homeland Security Park Ranger Detective	Immigration Officer Police Officer Emergency Medical Technician Judge Probation/Parole Officer	
Required Courses	9th grade	10th grade	11th grade	12th grade
	English 1 Math 1 (or higher) Biology Social Studies PE, Health	English 2 Math 2 (or higher) Chemistry Continental Studies PE Personal Finance	American Literature Math 3 (or higher) Physics US History PE	English Elective Government PE
Recommended or related pathway courses offered at ZB	Spanish 1	Spanish 2 AP Spanish Language and Culture AP Spanish Literature and Composition	Spanish 3 Public Speaking Forensic Science Business Law Sociology 1 & 2 AP Spanish Language and Culture AP Spanish Literature and Composition Microsoft Office Specialist Prep	Spanish 4 AP Spanish Language and Culture AP Spanish Literature and Composition Psychology 1 & 2 AP Psychology Sociology 1 & 2 Public Speaking Forensic Science Business Law Sociology 1 & 2 Microsoft Office Specialist Prep.
Tech Campus related pathway courses			Criminal Justice Law Enforcement and Crime Scene Investigation Firefighting Medical Assisting	Criminal Justice Law Enforcement and Crime Scene Investigation Emergency Medical Services Firefighting Medical Assisting
4 year college majors	Corrections Criminal Justice Criminology Cyber/Computer Forensics Energy, Environment, & Natural Resource Law		Fire Science Fire Service Administration Forensic Science and Technology Health Law Homeland Security Law	
CLC Programs	Criminal Justice Paralegal Studies Emergency Medical Technician Fire Science Technician		Administrative Leadership Office Professional Correctional Counseling Trauma/Victim Services	

CAREER CLUSTER: Manufacturing

Careers	CNC Operator Health & Safety Rep Manufacturing Technician Design Engineer Industrial Machinery Mechanic	Mechanic Production Manager Environmental Engineer Inspector Quality Control Technician	Foundry Worker Labor Relations Manager Safety Engineer Freight, Stock, Material Mover Machinist Welder	
Required Courses	9th grade	10th grade	11th grade	12th grade
	English 1 Math 1 (or higher) Biology Social Studies PE, Health	English 2 Math 2 (or higher) Chemistry Continental Studies PE Personal Finance	American Literature Math 3 (or higher) Physics US History PE	English Elective Government PE
Recommended or related pathway courses offered at ZB	3-D Modeling Pre-Architecture Electricity & Electronics 1 & 2 Metals 1 & 2 Power Mechanics 1 & 2 Woods 1 & 2 3-D Sculpture 1	Engineering & Architecture 3-D Sculpture 2 DC Machine Trades Blueprint Reading	Intro to Carpentry, Building Trades & Construction Microsoft Office Specialist Prep DC Machine Trades Blueprint Reading Applied Math	Intro to Carpentry, Building Trades & Construction Microsoft Office Specialist Prep DC Machine Trades Blueprint Reading Applied Math
Tech Campus related pathway courses			Computer Integrated Manufacturing & Civil Engineering & Architecture Construction Skills & Management Welding & Fabrication Engin. Technology Laser Technology	Computer Integrated Manufacturing & Civil Engineering & Architecture Construction Skills & Management Engin. Technology Welding & Fabrication Laser Technology
4 year college majors	Apparel & Textiles Design Computer Engineering Tech Engineering Industrial Technology	Laser & Optical Technology Manufacturing Engineering Mechanical Engineering Metallurgical Technology Nuclear Power Technology	Occupational Safety & Technology Plastics & Polymer Engineering Robotics Technology Industrial Engineer	
CLC Programs	Business Administration Mechanical Engineering Technology Welding Construction Management Technician		CNC Programming CAD Drafting Technician Electrical Engineer Technician	

CAREER CLUSTER: Science, Technology, Engineering & Mathematics

Careers	Actuary Geneticist Photonics Tech Anthropologist Electrical Engineer		Physicist Archeologist Math/Science Teacher Statistician	Astronomer Mechanical Engineer Chemist Meteorologist
Required Courses	9th grade	10th grade	11th grade	12th grade
	English 1 Math 1 (or higher) Biology Social Studies PE, Health	English 2 Math 2 (or higher) Chemistry Continental Studies PE Personal Finance	American Literature Math 3 (or higher) Physics US History PE	English Elective Government PE
Recommended or related pathway courses offered at ZB	Business Concepts 3-D Modeling Electricity & Electronics 1 & 2	Engineering & Architecture	Pre-Calculus Pre-Calculus Honors AP Calculus Astronomy Forensic Science Environmental Ecology 1 & 2 AP Environmental Science Accounting Microsoft Office Specialist Prep	AP Statistics Pre-Calculus Pre-Calculus Honors AP Calculus Astronomy Forensic Science Environ Ecology 1 & 2 AP Environmental Science AP Biology AP Chemistry AP Physics AP Environmental Science AP Computer Science Accounting Microsoft Office Specialist Prep.
Tech Campus related pathway courses			Laser Technology Computer Integrated Manufacturing & Civil Engineering & Architecture Engin. Technology	Laser Technology Computer Integrated Manufacturing & Civil Engineering & Architecture Engin. Technology
4 year college majors	Actuarial Science Astronomy Behavioral Sciences Biology Chemical Engineering Engineering Ecology	Marine Biology Mathematics Robotics Pharmacology Physics Radiation Biology Botany	Genetics Geological & Earth Sciences Nanotechnology Natural Sciences Nutrition Sciences Oceanography	
CLC Programs	Chemistry Biology Physics Mathematics Engineering Photonics		Mechanical Engineering Wireless Networking Security Fiber Optics Technician Nanoscience	

CAREER CLUSTER: Service Technologies

Careers	Automotive Mechanic Electrician Plumber Automotive Repair General Contractor	Rofer Avionics Technician HVAC Mechanic Sheet Metal Worker	Carpenter Locomotive Engineer Drywall Installer Painter	
Required Courses	9th grade	10th grade	11th grade	12th grade
	English 1 Math 1 (or higher) Biology Social Studies PE, Health	English 2 Math 2 (or higher) Chemistry Continental Studies PE Personal Finance (Class of 2023 & 2024)	American Literature Math 3 (or higher) Physics US History PE	English Elective Government PE
Recommended or related pathway courses offered at ZB	3-D Modeling Pre-Architecture Electricity & Electronics 1 & 2 Metals 1 & 2 Power Mechanics 1 & 2 Woods 1 & 2 Painting 1 & 2	Engineering & Architecture Electricity & Electronics 1 & 2 Metals 1 & 2 Power Mechanics 1 & 2 Woods 1 & 2 Painting 1 & 2	Applied Math Microsoft Office Specialist Prep Intro to Carpentry Engineering & Architecture Electricity & Electronics 1 & 2 Metals 1 & 2 Power Mechanics 1 & 2 Woods 1 & 2 Painting 1 & 2	Applied Math Microsoft Office Specialist Prep Intro to Carpentry Engineering & Architecture Electricity & Electronics 1 & 2 Metals 1 & 2 Power Mechanics 1 & 2 Woods 1 & 2 Painting 1 & 2
Tech Campus related pathway courses			Auto Collision Repair Automotive Service Construction Skills & Management Welding & Fabrication Machining Technology	Auto Collision Repair Automotive Service Construction Skills & Management Welding & Fabrication Machining Technology
4 year college majors	Electrical Engineering			
CLC Programs	Automotive Collision Repair Automotive Technology Heating, Ventilation & Air Conditioning Electrical Engineering Technology			

Zion-Benton Township High School District 126

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ZBTHS District 126 Office

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