



MILWAUKEE LUTHERAN HIGH SCHOOL

2020-2021 ACADEMIC HANDBOOK

SHARING JESUS, SHAPING LIVES, DEVELOPING LEADERS

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INTRODUCTION

The academic handbook describes various educational programs, registration information, and course offerings available to students at Milwaukee Lutheran High School. Also included are graduation requirements, college admission requirements, and academic procedures. This handbook describes courses to be offered during the 2020-2021 school year. It should be noted that some courses listed may not be offered due to insufficient enrollment.

Milwaukee Lutheran High School offers a high quality, comprehensive curriculum. Our academic courses are designed to meet the individual needs of each student as we prepare the student for a productive post-secondary experience. Students receive the opportunity to select appropriate courses from each department, which will challenge their ability and provide a well-rounded education. Because the master schedule is based on student interest, not all courses listed in this handbook may be offered every year.

EDUCATIONAL PROGRAMS

Instruction and student learning at Milwaukee Lutheran are approached from a Christian worldview. The minimum graduation requirements are listed below.

<u>GRADUATION REQUIREMENTS</u>	
Religion	8 Credits
English	8 Credits
Social Studies	6 Credits
Mathematics	6 Credits
Science	6 Credits
Physical Educ.	4 Credits
<i>*Financial Literacy</i>	<i>1 Credit</i>
<i>(included with 50)</i>	12 Credits
Electives	
<i>TOTAL = 50 Credits</i>	
<i>1 Credit = 1 Semester</i>	

I. RED KNIGHT INSTITUTE

The Red Knight Institute is an educational leadership program designed to meet students' academic and career needs on an individual basis. Divided into two Academies, Career and Honors, The Red Knight Institute focuses upon identifying and enhancing each student's God-given talents.

A. Art Academy

The Art Academy at Milwaukee Lutheran is designed to inspire and train students to pursue careers as professional artists. Students will connect to the local art community through professional internships, partnerships with local art studios, and opportunities to work with professional designers. Art Academy students will focus on developing a professional skill set, coupled with a professional work ethic, to make a positive impact by serving the community around them through Art and Design.

B. Urban Education Academy

The Urban Education Academy at Milwaukee Lutheran helps prepare students for service as a teacher in urban schools. The field of education and our church body, The Lutheran Church-Missouri Synod, have recognized the shortage of teachers-especially teachers of color. Because Milwaukee Lutheran has a long history of preparing students for service to the church, this Academy will intentionally work with students who have the attributes of an effective educator and the interest to pursue it as a future career.

C. Honors Academy

The Honors Academy at Milwaukee Lutheran presents a rigorous curriculum to students wishing to grow academically, spiritually, and as leaders during their high school years. The Honors Academy takes this education to the next level by requiring students to maintain a 3.5 grade point average while enrolling in 10 credits of Honors or Advanced Placement courses over a four-year period. Students choose from the Honors courses that best fit their college plans. Students who meet the graduation requirements of the Honors Academy will graduate with an Honors distinction from Milwaukee Lutheran which will be recognized on their diploma at the time of graduation.

D. Career Academy

The Career Academy at Milwaukee Lutheran is a technical education program that prepares students for professional work experiences and full-time employment during their high school years. While most technical education programs end with skill development, the Career Academy takes this training to the next level by offering internships, employment, and continuing education opportunities. Specific skills are developed over the course of a student's high school program as they continue to pursue their chosen career. The graduation requirements for the Career Academy are outlined below.

E. Free Enterprise Academy

The Free Enterprise Academy at Milwaukee Lutheran provides students with the resources to think freely about the principles of economics, personal finance and entrepreneurship while at the same time using an historical lens to understand free markets through the constructs of capitalism. All students at Milwaukee Lutheran participate in coursework provided by the Free Enterprise Academy, and students with a passion for business can pursue additional coursework in economics, accounting, business, digital media and entrepreneurship. It is the goal of the Free Enterprise Academy to challenge students to think critically about free markets, the role of the federal government, financial literacy and business as an enterprise.

II. COLLEGE PREPARATORY

This is a well-balanced program, embracing subjects of academic and cultural value. Students who do not choose to enroll into the Red Knight Institute are automatically enrolled in the College Preparatory track described below. While college preparation is the focus, our student body size and teaching expertise allows us to provide a variety of elective courses that supplement the core curriculum and round out a student's academic experience. The curriculum emphasizes critical thinking, problem solving, discernment, and assessment of reading, writing, computation, and communication skills.

<u>RECOMMENDED FOR COLLEGE</u>	
Religion	8 Credits
English	8 Credits
Social Studies	6 Credits
Mathematics	6 Credits
Science	6 Credits
Foreign Language	4 Credits
Physical Educ.	4 Credits
Electives	12 Credits
<i>TOTAL = 54 Credits</i>	
<i>1 Credit = 1 Semester</i>	

III. TRANSITIONAL EDUCATION SERVICES

The Transition Education Services program at Milwaukee Lutheran High School provides assistance, as available, for students with a diagnosed disability or impairment affecting his or her ability to function independently within the school environment. The program offers a spectrum of services which include a modified core curriculum, resource study hall, reasonable classroom accommodations, and post-secondary planning. Students receive support and instruction that promotes self-advocacy, problem-solving, the development of compensatory skills, and classroom success. Students wishing to enroll in the Transition Program must provide current and past assessments indicating evidence of a disability or impairment, and a review of all educational records. A family interview with program staff may also be required. Admission to the program is limited. Graduation requirements for the Transitional Education Services program are the same as the graduation requirements from Milwaukee Lutheran and are listed above.

PROGRAM PLANNING

Course program planning is a joint task among students, parents, and school personnel. The academic advisors will work closely with students in planning immediate and long-range course programs to best suit high school and post-high school plans. Course selections should also be carefully discussed at home. If students have questions regarding courses, they should feel free to discuss this with their teachers and counselors. Students should also choose courses that fit their chosen educational program described above.

Listed below are the required courses for each grade level. Students should make careful choices consistent with their academic goals when selecting courses, especially electives. This will avoid unnecessary schedule changes.

Grade 9		Grade 10	
Freshman Religion	2 Credits	Sophomore Religion	2 Credits
English*	2 Credits	English	2 Credits
Mathematics*	2 Credits	Mathematics	2 Credits
Freshman Physical Education	1 Credit	Physical Education Elective	1 Credit
Science*	2 Credits	Biology or Science Elective	2 Credits
Geography/Civics	2 Credits	U.S. History I / II	2 Credits
Design, Tech. Ed, or Business	1 Credit	Electives	3-5 Credits
Electives	2-4 Credits		
Grade 11		Grade 12	
Junior Religion	2 Credits	Senior Religion	2 Credits
English	2 Credits	English	2 Credits
Mathematics	2 Credits	Physical Education Elective	1 Credit
Physical Education Elective	1 Credit	Electives	7-11 Credits
Science Electives	2 Credits	Financial Literacy**	1 Credit
Social Studies Electives	2 Credits		
Electives	3-6 Credits		
Financial Literacy**	1 Credit		

* These courses are assigned based on the results of the freshman placement test

** Students must take and pass a financial literacy court in either their junior or senior year

GRADE-LEVEL PROMOTION

Students are promoted to the next grade level when they have met or exceeded the credit totals stated below by the end of the current academic year:

Grade 9: 13 Credits	Grade 10: 25 Credits
Grade 11: 37 Credits	Grade 12: 50 Credits (upon graduation)

Students needing additional credit to achieve grade-level promotion can speak with the Academic Advising Office for credit recovery options.

CREDIT LOAD

Students are required to be enrolled in a minimum of twelve credits each year (six credits each semester). A typical course load is between fourteen and sixteen credits per year (seven or eight credits each semester). The principal may grant exemptions to these requirements for upperclassmen with special considerations. Early graduation is not a practice of Milwaukee Lutheran High School.

Credits awarded by previous schools may be accepted if they are included in the Milwaukee Lutheran curriculum and are deemed to be of sufficient level and length (minimally one semester long), and quality (must be considered passing within our grading system; percentage grades will be converted to a letter grade according to the MLHS grade scale). Course work that is unique to a particular school or school system will not be accepted as a transfer credit.

COURSE AUDIT

If a student desires to audit a course, the signatures of his/her parent, the course instructor, and guidance counselor must be obtained by the student. All course audit agreements must be arranged at the beginning of a course (by the end of the first six-week grading period), **not** at the end of a course for purposes of avoiding an unacceptable grade. Advanced, Honors, and AP courses may not be audited.

The signatures constitute a contractual agreement by the student to comply with the following terms:

1. The student agrees to do all of the assigned work in the course, but not for a grade or credit.
2. The student agrees not to be an attendance problem (tardiness to class or missing class altogether).
3. The student agrees not to be a behavior problem in class.

SCHEDULE CHANGES

Students will have the opportunity to request schedule changes up until the first day of each semester. The procedure requires written permission from a parent and the signatures of the instructors of courses being dropped and added.

Schedule changes will only be considered for acceptable reasons including:

- Failure of a required or prerequisite course.
- Adding a course needed to graduate on time.
- Accommodating a medical condition.
- To balance class sizes.
- To provide an academic intervention or support.

Students may drop an elective course at the conclusion of the first six-week grading period without a grade penalty; however, only a study hall can be added to their schedule at that time. If a student wishes to drop a course after the six-week point, the grade given is a Withdrawal-F. The only exception is if the drop is recommended by the classroom teacher because the student is unable to successfully complete the work assigned due to a lack of ability in the subject matter.

ATTENDANCE FORFEITURE

Course credit will be forfeited following the **seventeenth absence** in a semester. In cases where extended absence is required for emergency reasons, the administration may waive the regulations on the forfeiture of credit. Documentation may be required to demonstrate the emergency reasons.

All absences are recorded as absences. However, the following terms will be used:

- **Excused Absences** are due to illness, doctor appointments, family-related illness, family emergencies, funerals, and other approved reasons. The school will require a doctor's excuse if the student is absent three or more consecutive days. All work may be made up for full credit.
- **Unexcused Absences** are absences due to truancy, suspension, oversleeping, or other unapproved reasons. No academic credit for assignments, classwork, or quizzes will be awarded for the days that a student has unexcused absences from class, however projects and tests will be allowed with a 25% reduction.

ACADEMIC RECOGNITION

Students who earn a GPA of 3.50 and 4.00 for a semester will qualify for High Honor Roll. A GPA between 3.00 and 3.49 will qualify for Honor Roll.

ACADEMIC EVALUATION

The standard recommended grading scale at Milwaukee Lutheran is as follows:

A	4.000	(93.5-100)	C+	2.333	(78.5-81.49)	D-	0.667	(63.5-66.49)
A-	3.666	(90.5-93.49)	C	2.000	(75.5-78.49)	E	0.000	(Credit received based upon effort)
B+	3.333	(87.5-90.49)	C-	1.667	(72.5-75.49)	F	0.000	(0-63.49)
B	3.000	(84.5-87.49)	D+	1.333	(69.5-72.49)			
B-	2.666	(81.5-84.49)	D	1.000	(66.5-69.49)			

Grades are based upon the student's cumulative performance over the course of the semester. Semester grades are the only grades which appear on a student's permanent transcript record.

Milwaukee Lutheran believes that appropriate and timely communication for both our students and their parents is essential to maximizing the potential of each student. Grades may be accessed at any time by students and parents using the online gradebook. Students and parents will be given access to separate online accounts. Parents will be emailed a *Progress Report* at the end of each six-week period from each teacher. *Progress Reports* differ from a report card in that it lists all test, quiz, and project grades, as well as comments regarding the student's effort.

Report cards will be posted at the conclusion of the semester. Parents and students may access their report card within the online gradebook or requested through the Academic Advising Department.

GRADING PERCENTAGES

As a school, we have established weighting percentiles for all core courses based on their course number. This will apply to all classes in English, foreign language, math, religion, science, and social studies. This does not apply to art, business, music, physical education, or technical education courses.

This consistency ensures that we are able to appropriately measure students learning based on their grade level. High school bridges the expectations between middle school and college. Freshmen students course grades will be determined by a higher percentage of their work (formative) and less upon what they know. As students advance to higher level courses, less emphasis is on the completion of work and a higher percentage is based on their understanding and learning (summative). Formative grades are based on daily work, labs, quizzes, participation, having materials, etc. Summative grades are based on presentations, projects, tests, and the semester final exam. Final exam percentages may range between 10% and 20% of the total semester grade. Each teacher may further break down the formative and summative components of the grade into specific categories within their course.

- 100 Level Courses – 60% Formative / 40% Summative
- 200 Level Courses – 50% Formative / 50% Summative
- 300 Level Courses – 40% Formative / 60% Summative
- 400/500 Level Courses – 30% Formative / 70% Summative

LATE WORK POLICY (FACE-TO-FACE INSTRUCTION)

- All daily assignments, homework, and quizzes will be accepted for credit up to the end of a unit. However, teachers may deduct points for lateness per their classroom policy.
- All tests are required to be taken at the end of the unit.
- All major projects, presentations, or test retakes will be accepted for credit up to the end of the 6 week grading period. However, teachers may deduct points for lateness per their classroom policy.
- Any work missed due to an excused absence will be given two days to complete (this includes tests).

INCOMPLETES

Teachers may assign an incomplete grade at the end of the semester for those students who have missed an extended amount of class time. Teachers should inform the student that an incomplete grade will be given and the requirements to receive a letter grade. Students will have three weeks after grades have been posted to fulfill the course obligations and a letter grade will be posted.

GRADE POINT AVERAGE

Semester grades are the only grades used in computing a student's grade point average (GPA). A student's GPA is calculated by dividing the total number of quality points by the number of courses taken. The cumulative GPA consists of grades received from all courses taken by the student.

REPEATING A COURSE FOR IMPROVEMENT

Students may retake a course to improve their grade, but credit will only be awarded one time for taking the course. In this case, the original grade will be recorded as an audit (AUD on the transcript) and the new grade will be placed on the permanent transcript. Teacher approval must be granted in circumstances that arise where a student desires to retake a course that has already been successfully completed.

CREDIT RECOVERY

In the case where a student fails a course, credit recovery may be necessary. Listed below are credit recovery options for courses that have been failed.

1. Demonstration of Mastery of Retroactive Content

In certain courses, first semester credit can be recovered by demonstrating proficiency (defined as C- or better) during the second semester due to the sequential nature of the content. If the second semester grade falls below a C- at any point, MLHS reserves the right to remove the student from the course. This option is teacher initiated based upon performance toward the end of the first semester and includes a contract signed by the student, parents, and teacher. *This option is typically only available for courses in foreign language and mathematics.*

2. Repeating Courses

When a student requests to repeat a course due to a failing grade, he or she will be allowed to do so once. The student will be scheduled for the course on a space-available basis. Students who have not previously taken the course will be given priority when scheduling.

3. Milwaukee Lutheran Summer School

Summer school may be offered in English and/or Math. Students must follow directives concerning summer school attendance and performance to be granted credit.

English – Students who fail Applied English or English I for one or multiple semesters may be required to complete Summer School. The recovered credits will be added to a students' transcript.

Math – Students with a course grade of D or F Algebra may utilize this option to demonstrate content knowledge. Students who received an F and successfully complete the summer session will have the grade added to the transcript and the student will be able to progress to the next math course in sequence. For students who earned a D, after successful completion of the summer course, the course grade will be changed (this grade will not be changed to higher than a C+).

Blended Learning - Students who fail Biology, Geometry or US History may be required to complete a summer school option at Milwaukee Lutheran. Students will complete coursework online through a learning management system and will also have to attend a few face-to-face classes to complete labs, projects or tests. There are additional fees required to complete this option.

4. Credit Recovery for Physical Education Due to Medical Condition

If a student is unable to participate in physical education for greater than 30% of the semester due to a medical condition, the course must be repeated the next time it is offered.

5. Alternative Credit Recovery

Credits can also be earned by successfully completing a summer school program or online equivalency course through an accredited academic institution. In order for credits to be accepted through these institutions, approval must be granted by MLHS administration prior to the course being taken.

ADVANCED PLACEMENT / HONORS COURSES

Advanced Placement (A.P.) and Honors courses are designed to challenge students who excel in the classroom. Course requirements for A.P. courses are in excess of what might be expected from a normal advanced course. Students will be pushed intellectually to commit to excellence in preparation for what they will experience in a college classroom.

Enrollment in these courses is based on test scores and/or previous grades and an application to the instructor. Some upper-level course sections are offered as Advanced Placement courses which may lead to college credit as well as high school credit. The College Board administers a test each spring to determine if college credit can be granted to each student. In most circumstances college credit is awarded with a score of 3 to 5 on the AP test. Other scores may be considered based on the institution. Additional information on AP courses and exams may be found at www.collegeboard.com.

DUAL CREDIT COURSES

Dual credit courses enable students to earn college credits while in high school. The advantage of these courses is that the courses grant credit for successfully completing a course, unlike Advanced Placement credits which are based on passing a single, comprehensive exam. The high school credit is reflected on the Milwaukee Lutheran transcript. The college credit is awarded through the participating institution and can be transferred according to the transfer policies of the accepting institution. It is the institution receiving the credit that determines if the credit is accepted and how it is applied. See the advisors for information on available programs and courses, enrollment, and other policies.

WITHDRAWAL FROM MILWAUKEE LUTHERAN

In cases where a student is asked to or chooses to withdraw from Milwaukee Lutheran during a semester, paperwork must be completed with the Academic Advising secretary before any academic records are released to the student. If the paperwork is not completed and verification is received of transfer from another school, the student will be automatically withdrawn after 3 school days for internal purposes (enrollment figures, grades, etc.). Credit will not be granted for any uncompleted courses. At the discretion of administration, grades may be “frozen” which would award credit for any course currently being passed.

2020-2021 COURSE CATALOG

ACADEMIC SUPPORT

ALGEBRA SUPPORT (AC 220)

Prerequisite: Department Approval

This course is designed to help students be successful in freshmen algebra. Small class size allows teachers to work with students on Algebra course content as well as work to improve individual math skills. Students will take both Algebra and Algebra Support concurrently. This course is an independent grade of pass / fail.

<i>Elective</i>	Credit	9	10	11	12
	1.0	X			

INTERNSHIP (AC 400)

Students can earn credit for internships and work experience. They will be under the supervision of Milwaukee Lutheran High School and will work to develop skills in the areas of communication, organization and problem solving.

<i>Elective</i>	Credit	9	10	11	12
	1.0				X

ART

INTRODUCTION TO DRAWING (AR 110)

Students will have opportunities to learn what it takes to make creative, interesting, and successful artwork. Students will learn various drawing skills including portraits, perspective, and color theory that will prepare them to be better artists capable of advanced coursework in drawing, illustration, and painting.

<i>Elective</i>	Credit	9	10	11	12
	1.0	X	X	X	X

INTERMEDIATE ILLUSTRATION & COMICS (AR 210)

Prerequisite: C Grade or Better in AR 110

This course combines drawing techniques, creativity, and digital technology to create cartoons, comics, manga, and illustrations. Students will focus on problem solving, communicating messages, and telling stories through story book illustration, article illustration, and product & poster illustration.

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

ADVANCED DRAWING (AR 310)

Prerequisite: C Grade or Better in AR 210

This course includes skills of traditional drawing such as portraits, figure drawing, and storytelling, but also focuses on giving students an opportunity to express themselves with new media and techniques. The class is for artists with strong drawing abilities that would like to improve their drawing skills or prepare for coursework at the collegiate level.

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

INTERMEDIATE PAINTING (AR 220)

Prerequisite: C Grade or Better in AR 120

This course includes concepts of the traditional painting discipline while building on the painting techniques and color theory taught in 2D. Students will be working in acrylic and watercolor while learning classic techniques along with a few modern approaches.

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

ADVANCED PAINTING (AR 320)

Prerequisite: C Grade or Better in AR 220

Advanced work with acrylic will be done as well as experimenting with non-traditional painting tools and methods. Focus on creative expression, experimentation, and creating an identity through paint.

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

INTRODUCTION TO 3-DIMENSIONAL ART (AR 230)

Students will learn 3-D design and building techniques of ceramics, jewelry and sculpture. Use clay, wood, metal, plaster, and other materials to create sculptures, vessels, jewelry and reliefs.

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

INTERMEDIATE CERAMICS (AR 330)

Prerequisite: C Grade or Better in AR 230

Students learn various skills of creating and decorating clay objects. Several hand building and potter's wheel techniques are explored. Construct and glaze sculptures, tiles, cups, bowls, lid pots, and other projects. Then, take your work home and use it!

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

ADVANCED CERAMICS (AR 430)

Prerequisite: C Grade or Better in AR 330

Advanced Ceramics studio in which students complete five major projects using skills and concepts learned in Ceramics I. Additional hand building and potter's wheel techniques are explored. Make handles, lids, big pots, sculptures, pitchers, sets of dishes, and teapots!

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

INTERMEDIATE CREATIVE CRAFTS (AR 240)

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Prerequisite: C Grade or Better in AR 110, AR 230, DS 100

This course introduces students to the skills and media of arts and crafts. We will be using various materials to develop our design, constructing and craft making skills. Make home décor, paper & textile crafts and other DIY projects.

ADVANCED STUDIO ART 1 (AR 410)

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Prerequisite: 3 Semesters of Art and Department Approval

Students enhance their art skills through their choice of advanced drawing, painting, graphic design, ceramic or sculpture focusing on creating a cohesive portfolio. The majority of this course is student driven where the students are working on expanding their existing abilities.

ADVANCED STUDIO ART 2 (AR 510)

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Prerequisite: Studio Art 1 and Department Approval

Students will continue to enhance their art skills – building on concepts and skills from the Studio Art 1. Using a variety of media, students will develop creative solutions to projects involving brand identity, visual expression, and expanding an aesthetic style. Students will continue to build a comprehensive personal portfolio.

BUSINESS EDUCATION

COMPUTER APPLICATIONS I (BU 120)

<i>Elective</i>	Credit	9	10	11	12
	1.0	X	X	X	X

This course is designed for beginning students who already know the keyboard and have an introductory knowledge of Word, Excel and Power Point. Students develop increasing skill levels in keyboarding speed and accuracy and will continue to expand their knowledge of word processing, producing both personal and business documents, spreadsheets, database management and presentation and graphics. The course is applicable to students for both personal and vocational use.

COMPUTER APPLICATIONS II (BU 220)

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Prerequisite: BU 120

This course is designed for beginning students who already know the keyboard and have an introductory knowledge of Word, Excel and Power Point. Students develop increasing skill levels in keyboarding speed and accuracy and will continue to expand their knowledge of word processing, producing both personal and business documents, spreadsheets, database management and presentation and graphics. The course is applicable to students for both personal and vocational use.

INTRODUCTION TO COMPUTER SCIENCE (BU 230)

<i>Elective</i>	Credit	9	10	11	12
	1.0	X	X	X	X

Prerequisite: MA 160

This course takes a wide lens on computer science by covering topics such as programming, physical computing, HTML/CSS, and data. Students engage with computer science as a medium for creativity, communication problem solving, and fun. The course inspires students as they build their own websites, apps, games, and physical computing devices.

ADVANCED COMPUTER SCIENCE (BU 235)

<i>Elective</i>	Credit	9	10	11	12
	1.0	X	X	X	X

Prerequisite: BU 230

This course takes an advanced look into computer science by covering topics such as programming, physical computing, HTML/CSS, and data. Students engage with computer science as a medium for creativity, communication problem solving, and fun. The course inspires students as they build their own websites, apps, games, and physical computing devices.

ACCOUNTING I (BU 310)

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Prerequisite: MA 160

Accounting is a course intended for all students--for those intending to explore the field as a career, for those going into other occupations in the business world and for those who want to learn record keeping for personal use. This course introduces the students to double-entry bookkeeping.

ACCOUNTING II (BU 410)

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Prerequisite: BU 310

Accounting is a course intended for all students--for those intending to explore the field as a career, for those going into other occupations in the business world and for those who want to learn record keeping for personal use. This course introduces special problems associated with bookkeeping, payroll record keeping, automated bookkeeping and income tax.

PERSONAL FINANCE (BU 320)*Prerequisite: MA 160*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Personal finance helps the student learn how to deal with professional marketers and how to make more satisfying decisions regarding the many problems they will face as a consumer. The student learns about these many consumer problems through lectures in class, reading interviews with businessmen, education simulations and role-playing. Major units include budgeting use of credit, investments and insurance. Several simulations included in the course will involve the use of the internet and software that the student could adapt to his/her own personal needs now or at some time in the future.

BUSINESS MARKETING (BU 330)*Prerequisite: BU 110*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Students will be introduced to the exciting world of creating and owning their own business. The four P's of marketing will be the focus. Topics studied will include bookkeeping, payroll, record keeping, inventory management and sales, and customer service. Students will gain valuable knowledge and hands on experience working in conjunction with the Lutheran Print Specialists.

MEDIA PRODUCTION AND ANALYSIS (BU 340)

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

This course will focus on the fundamentals of video production. Simple techniques – including shooting and editing will be emphasized. The main focus will be “hands-on” digital video production. There will also be an emphasis involving sports statistics as it relates to MLHS athletics. Students will use MLHS sporting events, drama productions, and music performances as the subject of content.

LUTHERAN PRINT SPECIALISTS (DS/BU 420)*Prerequisite: DS 200 & BU 330*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Lutheran Print Specialists is business owned by Milwaukee Lutheran and operated by its students. Students will print posters, banners, programs, and other materials for Milwaukee Lutheran and the community at large. Roles in this business include project management, sales and client services, financial systems, design creation, and print production. Application for this course is required.

BUSINESS SUCCESS (BU 430)

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

The Business Success Course is designed to prepare students for the corporate world and a career in the field of business. Students will work through developing a resume and portfolio, personal economics, networking, management and many other financial and business topics as they prepare for their future.

YEARBOOK (BU 510/515)*Prerequisite: DS 100*

<i>Elective</i>	Credit	9	10	11	12
	2.0			X	X

This course is designed for students who wish to learn the basics of yearbook production. It covers the roles of staff members, mechanics, and skills used in financing a yearbook, yearbook journalism, yearbook photography, planning and producing pages, and preparation of a yearbook for final printing.

DESIGN EDUCATION

INTRODUCTION TO DESIGN (DS 100)

<i>Elective</i>	Credit	9	10	11	12
	1.0	X	X	X	X

This introductory course covers the basic of design and experiences in Adobe Photoshop, Illustrator, and other industry-standard software. Students use computers to build habits, solve problems and practice skills as they create graphic designs, animation, digital photos, and other design-based projects. Students will create online portfolios of their best work. This course is just the starting point for our great Design curriculum!

INTERMEDIATE DESIGN-GRAPHIC DESIGN (DS 200)*Prerequisite: C Grade or Better in DS 100*

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Explore the power of graphic design as communication and expression. Discover the impact, principles, and components of Advertising, Packaging, Logos, Posters, Greeting Cards, and more! Create an online portfolio and design projects for our school community.

INTERMEDIATE DESIGN-DIGITAL PHOTOGRAPHY (DS 250)*Prerequisite: C Grade or Better in DS 100*

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Learn how to take and make great photos. Discover composition concepts and camera techniques to make your photos great. Add meaning and expression to your photos. Consider elements such as subject matter lighting, background, and file format. Learn to creatively and successfully manipulate your photos using Photoshop. Experience the skills of studio photography and discernment of managing an online portfolio. A digital camera is required for this course. A limited supply of cameras is available on short term loan.

INTERMEDIATE DESIGN-GAME DESIGN (DS 300)

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Prerequisite: C Grade or Better in DS 100

Design and create interactive games for computers and mobile devices! Add simple animation, media and interactivity to web pages. Learn what it takes to plan and produce simple quizzes, strategy games, and even time-based action games! Design projects for the school community and create a personal online portfolio.

INTERMEDIATE DESIGN-ANIMATION (DS 350)

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Prerequisite: C Grade or Better in DS 100

Create animations through simple photography and computer design. Create animations in pen-and-paper, Stop-motion, Adobe Flash, photo-manipulation, and more! Learn the skills of planning, producing, directing, developing characters, designing environments, narrating, writing dialogue, lip syncing, and managing post-production work for individual and cooperative animated productions.

ADVANCED DESIGN STUDIO (DS 400)

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Prerequisite: DS 100 & One 200 Level Design Course

Using knowledge and skills gained in other design courses, students will Design and Create several independent and varied projects. Service-oriented projects for the school and community will be included. Portfolio development is emphasized. This course may be taken more than once.

ADVANCED PRINT SPECIALISTS (DS/BU 420)

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Prerequisite: DS 200 & BU 330

Lutheran Print Specialists is business owned by Milwaukee Lutheran and operated by its students. Students will print posters, banners, programs, and other materials for Milwaukee Lutheran and the community at large. Roles in this business include project management, sales and client services, financial systems, design creation, and print production. Application for this course is required.

ENGLISH

8 Credits Required

English course selection can be constructed in the following manner:

FRESHMEN		SOPHOMORE		JUNIOR		SENIOR	
Applied English	⇒	English I	⇒	English II	⇒	English Electives	
English I	⇒	English II	⇒	English Electives	⇒	A.P. English <i>or</i> English Electives	
Honors English I	⇒	Honors English II	⇒	English Electives	⇒	A.P. English <i>or</i> English Electives	

APPLIED ENGLISH (EN 100/105)

<i>Required</i>	Credit	9	10	11	12
	2.0	X			

Applied English is a two-semester course that aims to bring students to grade-level proficiency in English. Throughout the year, we will focus on study skills, reading comprehension, grammar and composition, speech presentation, and basic literature analysis.

READING STRATEGIES (EN 110)

<i>Required</i>	Credit	9	10	11	12
	1.0	X			

This course is designed to help students who enter Milwaukee Lutheran with lower reading scores. Lessons will emphasize reading strategies that lead to greater comprehension. This course is taken in conjunction with Applied English or English I.

ENGLISH I (EN 120/125)

<i>Required</i>	Credit	9	10	11	12
	2.0	X			

The integration of reading, writing and human communications skills is the focus of this course. Students will be introduced to the study of standard formal grammar, mechanics and usage, and will be encouraged to use this as the basis for all communication. The basic elements of oral communication will also be introduced and explored. After completion of this course, students will have the necessary skills to begin further study in English and in all areas of the curriculum that require the standard use of the English language.

HONORS ENGLISH I (EN 150/155)*Prerequisite: Department Approval*

<i>Required</i>	Credit	9	10	11	12
	2.0	X			

This course is designed for those students whose skills, background and interest in English are above average. The readings and responses are more advanced and challenging, and the pace of the course will be faster. Students will read several novels which will become the basis from which the other skills are explored. In order to be eligible for this course, students must do well on the placement test given the preceding spring.

ENGLISH II (EN 220/225)*Prerequisite: EN 120/125*

<i>Required</i>	Credit	9	10	11	12
	2.0		X	X	

This course will provide students the opportunity to explore American Literature through various genre', and analyze and react through writing and oral presentations. Emphasis will be put on further developing the understanding of oral communication and strategies of presentation. There will be a review of punctuation, agreement and usage and a research project/presentation will be the culmination of this course.

HONORS ENGLISH II (EN 250/255)*Prerequisite: Department Approval*

<i>Required</i>	Credit	9	10	11	12
	2.0		X		

This course is the continuation of Enrichment English I and is considered an advanced English II. This course will require a higher level of thinking and a faster pace as students explore American Literature through various genre'. The American Novel will also be explored and oral communications and presentations will be expanded. As in English II a research project/presentation will be the culminating performance. In order to be eligible for this course, students will take a department sponsored test during the preceding spring.

WORLD LITERATURE (EN 330)*Prerequisite: EN 220/225 or higher*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Non-American literary sources will be read and studied during this survey, one semester course. Emphasis will be placed on older classical pieces of literature with units on non-Western literature, Ancient Greece, European Middle Ages, and contemporary short stories. Students will also work to improve their vocabulary.

MODERN FICTION (EN 350)*Prerequisite: EN 220/225 or higher*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

This course examines the themes found in the short stories, novels, and films that have been produced from the 1940's through the present. Works are studied for content and technique, as well as for worldview; comparison to and contrast with other works of fiction will also be discussed. In addition, each work will be examined in relation to the time period in which it was produced, as well as its relevance to contemporary society.

WRITING WORKSHOP (EN 360)*Prerequisite: EN 220/225 or higher*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

The emphasis in this course is writing, and students will write weekly in various genre' and for various purposes. Students will recognize writing as an extension of thinking and shaping ideas. The process of writing - from prewriting/conceptualization to self and peer editing - will be emphasized to improve the students' writing abilities. A weekly review of a mechanical, grammatical or usage guideline will be given. This course is recommended for all college bound students.

BUSINESS COMMUNICATION*Prerequisite: EN220/225 or higher*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Business Communication exists to prepare and enable students to develop and incorporate strategies for professional communication and to recognize, value and practice the culture of business in the contemporary business world. Examples of topics covered will be cover letter, resume writing, networking, mock interview and presentation skills.

MULTI-ETHNIC LITERATURE (EN 380)*Prerequisite: EN 220/225 or higher*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Students will explore specific ethnic/cultural literature across different genres. They will compare and contrast different cultural/ethnic heritages and respond through writing and orally. In this course students will reflect on their own heritage and identity as Christians and as people of a culture/ethnicity.

ORAL COMMUNICATIONS (EN 390)*Prerequisite EN 220/225 or higher*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

This course is designed to increase students' knowledge of the communication process and to develop effective communication skills, primarily through speaking and listening. It focuses on four major units: the communication process, listening & interpersonal communication, public speaking, and persuasion. This course will also provide practice in communicating effectively when doing performance assessments. While the course emphasizes speaking and listening, it incorporates reading and writing to help students develop fully as effective communicators.

A.P. ENGLISH LITERATURE (EN 510)

<i>Elective</i>	Credit	9	10	11	12
	1.0				X

Prerequisite: EN 330 & Department Approval

This course provides a college-level, college-format course involving in-depth reading of various genres of literature. The texts are studied in their cultural, historical, and sociological contexts, with emphasis on theme, tone, structure, style, and methods of character development. Students are encouraged to form and share their own opinions and to support them with viable evidence from the texts, considering the social and historical values it reflects and embodies. Through experiencing, interpreting, and evaluating the literature, students will fully grasp the literary merit of the text. The goal of this course is to prepare students to both succeed on the AP Exam and to write effective, college-level essays. (*Limited enrollment.*)

A.P. ENGLISH LANGUAGE (EN 520)

<i>Elective</i>	Credit	9	10	11	12
	1.0				X

Prerequisite: EN 330 & Department Approval

A.P. English is a college-level English course that often takes more time, requires more work, and gives greater opportunity for individual accomplishment than a regular high school English course. It is expected that students who select this course are serious about taking the A.P. exam, seeking college credit and/or placement. (*Limited enrollment.*)

WORLD LANGUAGE

AMERICAN SIGN LANGUAGE (FL 100)

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

American Sign Language is a natural language that serves as the predominant sign language of Deaf communities in the United States. Students will explore and learn the basics of American Sign Language in this course.

SPANISH I (FL 110/115)

<i>Elective</i>	Credit	9	10	11	12
	2.0	X	X	X	

This course gives students the opportunity to learn the mechanics of basic Spanish, which includes gaining proficiency in speaking, listening, reading, and writing. Grammatical concepts are also covered in order to understand the language better. Various cultural topics are discussed and presented through videos, CD-rom and Internet resources. Knowledge of English grammar is needed.

SPANISH II (FL 210/215)

<i>Elective</i>	Credit	9	10	11	12
	2.0	X	X	X	X

Prerequisite: FL 110/115 with C or better

This course continues to build on the abilities learned in Spanish I with increasing proficiency in speaking, listening, reading, and writing. There is a review of Spanish I material as well as further explanations of grammar so that the language can be used in more challenging ways. Students also gain additional insights into culture through various presentations, projects, and videos

SPANISH III (FL 310/315)

<i>Elective</i>	Credit	9	10	11	12
	2.0		X	X	X

Prerequisite: FL 210/215 with C or better

Spanish III offers a comprehensive review of grammar and vocabulary skills learned in Spanish I and II. More tenses and vocabulary are taught throughout the year. Oral skills are emphasized.

SPANISH IV (FL 410/415)

<i>Elective</i>	Credit	9	10	11	12
	2.0			X	X

Prerequisite: FL 310/315 with C or better

Spanish III offers a comprehensive review of grammar and vocabulary skills. Short story and poetry reading is required.

A.P. SPANISH (FL 550/555)

<i>Elective</i>	Credit	9	10	11	12
	2.0			X	X

Prerequisite: FL 410/415 with C or better

This course provides the qualified Spanish student the opportunity to earn college credit and/or placement by a successful performance on the A.P. exam. Course material and content is consistent with college level instruction.

MATHEMATICS

6 Credits Required

Math course selection can be constructed in the following manner:						
FRESHMEN		SOPHOMORE		JUNIOR		SENIOR
Pre-Algebra		Algebra		Geometry		Adv. Algebra Trig
Algebra	⇒	Geometry	⇒	Adv. Algebra Trig.	⇒	Pre-Calculus or Prob. and Stats
Honors Algebra	⇒	Honors Geometry	⇒	Honors Adv. Algebra Trig.	⇒	Honors Pre-Calc. or Prob. and Stats
Acc. Geometry	⇒	Honors Adv. Algebra Trig.	⇒	A.P. Calculus AB	⇒	A.P. Calculus BC or Prob. and Stats

ALGEBRA (MA 160/165)

<i>Required</i>	Credit	9	10	11	12
	2.0	X	X	X	X

The course consists of a thorough introduction to the algebra of real numbers. It emphasizes practical problem solving along with abstract algebraic processes. Acquiring a formal mathematical vocabulary is an integral part of the course. An introduction to probability, statistics and use of a scientific calculator is included in this course. A scientific calculator is required.

HONORS ALGEBRA (MA 170/175)

*Prerequisite: *Department Approval*

<i>*Required</i>	Credit	9	10	11	12
	2.0	X			

This course is designed for students who have been exposed to basic Algebra topics. It includes all of the concepts listed for Algebra. Students must qualify for this course through a department-sponsored test. A scientific calculator is required.

GEOMETRY (MA 210/215)

Prerequisite: MA 160/165 or Equivalent

<i>Required</i>	Credit	9	10	11	12
	2.0		X	X	X

This course studies plane geometry, including basic terminology, symbols and relationships of points, lines, rays, segments, angles, polygons, and circles. Basic logic skills are developed and applications of algebra to geometric concepts are emphasized. A scientific calculator is required.

HONORS GEOMETRY (MA 220/225)

*Prerequisite: *Department Approval*

<i>*Required</i>	Credit	9	10	11	12
	2.0	X	X		

This course includes all of the concepts listed for Geometry. In addition, three-dimensional topics are explored and formal proofs are emphasized. A scientific calculator is required.

INTERMEDIATE MATH (MA 250/255)

Prerequisite: Department Approval

<i>Elective</i>	Credit	9	10	11	12
	2.0		X	X	X

This course is designed for the student who has completed Algebra and Geometry but would benefit from a review of topics before taking additional math courses. Topics to be covered include the major concepts Algebra, Geometry, measurement, blue print reading, and mathematical problem-solving skills. A scientific calculator is required.

ADVANCED ALGEBRA TRIG (MA 350/355)

Prerequisite: MA 210/215 or higher

<i>Elective</i>	Credit	9	10	11	12
	2.0		X	X	X

This course is designed to prepare students to use advanced algebraic skills and concepts in mathematics and other related disciplines. It includes a study of linear, quadratic, polynomial, trigonometric, and logarithmic functions. A graphing calculator is required.

HONORS ADVANCED ALGEBRA TRIG (MA 360/365)

Prerequisite: Department Approval

<i>Elective</i>	Credit	9	10	11	12
	2.0		X	X	X

This course is designed for the students with strong abilities in mathematics. It is a continuation of first-year algebra and stresses the function concept, analytic geometry, and trigonometry. Algebraic skills, as well as the structure of mathematics, are stressed. A graphing calculator is required.

PROBABILITY AND STATISTICS (MA 400/405)

Prerequisite: MA 350/355 or higher

<i>Elective</i>	Credit	9	10	11	12
	2.0			X	X

This course is designed as a background to college mathematics and science courses by covering various topics related to higher level thinking skills. Topics covered include combinatorics, probability, statistics, logic and game theory. A graphing calculator is required.

PRE-CALCULUS AB (MA 410/415)**Prerequisite: MA 350/355 or higher**

This course is a preparation for Calculus. It includes the study of algebra, trigonometry, relations, conic sections, matrices, probability, limits and complex numbers with an emphasis in graphing functions. A graphing calculator is required.

<i>Elective</i>	Credit	9	10	11	12
	2.0			X	X

HONORS PRE-CALCULUS AB (MA 420/425)**Prerequisite: MA 350/355 or higher**

This course is designed for strong Math students in preparation for Advanced Placement Calculus. It includes the study of algebra, trigonometry, relations, conic sections, matrices, probability, limits and complex numbers with an emphasis in graphing functions. A graphing calculator is required.

<i>Elective</i>	Credit	9	10	11	12
	2.0			X	X

HONORS PROBABILITY & STATISTICS (MA 450/455)**Prerequisite: Department Approval**

This honors course will offer an intense and in-depth study of statistics specifically designed for the serious math student. A graphing calculator is required (TI-84 recommended). Four broad themes will be explored: Exploring Data, Planning a Study, Anticipating Patterns in Advance, and Statistical Inference. This course may provide opportunity for students to attempt to earn college credit and/or placement from a college by scoring appropriately on the national A.P. examination given annually in early May.

<i>Elective</i>	Credit	9	10	11	12
	2.0			X	X

A.P. CALCULUS AB (MA 550/555)**Prerequisite: MA 360/365 or MA 410/415 & Department Approval**

An Advanced Placement (A.P.) course consists of a full academic year of work in calculus and related topics comparable in scope to one semester of the traditional college calculus course sequence. Students who take an A.P. course can seek college credit and/or placement from institutions of higher learning through the national A.P. examination. A graphing calculator is required. (*Limited enrollment.*)

<i>Elective</i>	Credit	9	10	11	12
	2.0			X	X

A.P. CALCULUS BC (MA 570/575)**Prerequisite: MA 550/555 & Department Approval**

This Advanced Placement (A.P.) course consists of a full academic year of work in calculus and related topics comparable in scope to two semesters of the traditional college calculus course sequence. Students who take an A.P. course can seek college credit and/or placement from institutions of higher learning through the national A.P. examination. A graphing calculator is required. (*Limited enrollment.*)

<i>Elective</i>	Credit	9	10	11	12
	2.0				X

MUSIC

MEN'S CHORUS (MU 100/105)**Prerequisite: Department Approval**

This beginning choir of male voices will be exposed to and perform music from many different periods of history. Work on vocal technique, sight-reading skills, and theory will be stressed. Required performances may include, but are not limited to, the Christmas concert, spring concert and Fine Arts Concert.

<i>Elective</i>	Credit	9	10	11	12
	2.0	X	X	X	X

WOMEN'S CHORUS (MU 110/115)**Prerequisite: Department Approval**

This beginning choir of female voices will be exposed to and perform music from many different periods of history. Work on vocal technique, sight-reading skills, and theory will be stressed. Required performances may include, but are not limited to, the Christmas concert, spring concert, and Fine Arts Concert.

<i>Elective</i>	Credit	9	10	11	12
	2.0	X	X	X	X

KANTOREI CHOIR (MU 210/215)**Prerequisite: Audition, Department Approval**

This advanced choir of mixed voices will expand upon previous musical selections performed in the Women's and Men's Choruses. This group serves as an intermediate choir between chorus and the advanced choirs. Continued work on vocal technique, sight-reading skills, and theory will be stressed. Required performances may include, but are not limited to, the Christmas concert, spring concert, and Fine Arts Concert, chapel services, Lutheran High Sundays, tour performances, and any other performances if given at least one month's notice.

<i>Elective</i>	Credit	9	10	11	12
	2.0		X	X	X

WOMEN'S TREBLE CHOIR (MU 230/235)**Prerequisite: Audition, Department Approval**

This advanced women's choir of select voices will be exposed to and perform music from many different periods of history. Continued work on vocal technique, sight-reading skills, and theory will be stressed. Required performances may include, but are not limited to, the Christmas concert, spring concert, and Fine Arts Concert, chapel services, Lutheran High Sundays, tour performances, and any other performances if given at least one month's notice.

<i>Elective</i>	Credit	9	10	11	12
	2.0		X	X	X

ADVANCED MEN'S CHOIR (MU 240/245)

<i>Elective</i>	Credit	9	10	11	12
	2.0		X	X	X

Prerequisite: Audition, Department Approval

This advanced men's choir of select voices will be exposed to and perform music from many different periods of history. Continued work on vocal technique, sight-reading skills, and theory will be stressed. Required performances may include, but are not limited to, the Christmas concert, spring concert, and Fine Arts Concert, chapel services, Lutheran High Sundays, tour performances, and any other performances if given at least one month's notice.

JUBILEE CHOIR (MU 310/315)

<i>Elective</i>	Credit	9	10	11	12
	2.0		X	X	X

Prerequisite: Audition, Department Approval

This advanced choir of mixed voices will be exposed to and perform music from the twentieth century primarily focusing on worship, gospel, and praise music. Continued work on vocal techniques, sight-reading skills, and theory is included. Required performances may include, but are not limited to, the Christmas concert, spring concert, and Fine Arts Concert, chapel services, Lutheran High Sundays, tour performances, and any other performances if given at least one month's notice.

BEL CANTO CHOIR (MU 410/415)

<i>Elective</i>	Credit	9	10	11	12
	2.0		X	X	X

Prerequisite: Audition, Department Approval

This advanced choir of select voices will be exposed to and perform music from many different periods of history. Continued work on vocal techniques, sight-reading skills, and theory is included. Required performances may include, but are not limited to, the Christmas concert, spring concert, and Fine Arts Concert, chapel services, Lutheran High Sundays, tour performances, and any other performances if given at least one month's notice.

MUSIC APPRECIATION (MU 150)

<i>Elective</i>	Credit	9	10	11	12
	1.0	X	X	X	X

Prerequisite: Department Approval

Music appreciation provides instruction in basic music theory and instruments, traces the development and growth of several forms of music, and gives students a foundation to appreciate music more fully. Students will be exposed to several genres of music in the world around them and discover how they experience music. Students will learn the names and backgrounds of several famous musical composers and their contribution to their particular genre.

RED KNIGHT BAND (MU 120/125)

<i>Elective</i>	Credit	9	10	11	12
	2.0	X	X	X	X

Prerequisite: Department Approval

Red Knight Band is designed for students with little or no experience in a concert band setting. Emphasis is placed on reading music, rhythms, notes, and how music is put together. The band performs at concerts throughout the year. Successful completion of this course will result in the student being ready for Concert Band (MU130). Students can choose flute, clarinet, saxophone, trumpet, or trombone.

DRUM LINE (MU 130/135)

<i>Elective</i>	Credit	9	10	11	12
	2.0	X	X	X	X

Prerequisite: Department Approval

Through the introduction of reading music notation, rhythms, and sticking patterns, students will learn how to play drumline music for snare drum, bass drum, quads, and cymbals. Availability at performances including basketball games, football games, and band concerts is required.

CONCERT BAND (MU 220/225)

<i>Elective</i>	Credit	9	10	11	12
	2.0	X	X	X	X

Prerequisite: Department Approval**A \$10.00 uniform rental is required and a \$25.00 fee for percussionists.**

Through rehearsal and performance of basic music skills, the student has the opportunity to broaden his appreciation and understanding of all types of music and skills required to perform in musical organizations. Emphasis is placed upon developing enough skill on the individual instruments to perform at an average high school level. Exercises in technique, dynamics, articulation, and tone production are used every day in preparation for improving skills. The band performs during marching season at football games, parades, and various community and statewide events. During the concert season, the band performs at three major concerts, various music contests, and community events.

SYMPHONIC BAND (MU 320/325)

<i>Elective</i>	Credit	9	10	11	12
	2.0	X	X	X	X

Prerequisite: Audition, Department Approval**A \$10.00 uniform rental is required and a \$25.00 fee for percussionists.**

Through rehearsal and performance of superior music skills, the student has the opportunity to excel and expand his knowledge and appreciation of all types and varieties of music. Emphasis is placed on different styles of music and different skills involved in the performance of these styles of music. Exercises in technique, dynamics, and articulation are used every day in preparation for performance of difficult music. The band performs during the marching season at football games, parades, and various community and statewide events. During the concert season, the band performs at three major concerts, various music competitions, and community events.

JAZZ BAND (MU 420)

<i>Elective</i>	Credit	9	10	11	12
	1.0	X	X	X	X

Prerequisite: Audition, Department Approval, & Enrollment in MU 130

Through rehearsal and performance of basic jazz music skills, the student has the opportunity to broaden his appreciation and understanding of different types and varieties of jazz music. Emphasis is placed on performing different types of Big Band music and the different skills involved in performing these types of music. Attention is placed on sight-reading and improvisation. The jazz band performs at pep band performances, contests, and a variety of community events.

JOYFUL NOISE (MU 510)

<i>Elective</i>	Credit	9	10	11	12
	1.0	X	X	X	X

Prerequisite: Audition

Joyful Noise is a student-led worship band that will perform regularly for chapel and other school-sponsored events. This audition-based course will examine worship arts, music composition, current music software and technologies, and performance. Emphasis will be on both performance and examination of lyrical/structural content.

PHYSICAL EDUCATION

4 Credits Required

FRESHMAN GIRL'S PHYSICAL EDUCATION (PE 110)

<i>Required</i>	Credit	9	10	11	12
	1.0	X			

The emphasis in girl's physical education on the freshman level is on weight training, fitness, team building through the use of the ropes course, and the fundamentals of physical education as learned through participation in mostly individual sports.

FRESHMAN BOY'S PHYSICAL EDUCATION (PE 120)

<i>Required</i>	Credit	9	10	11	12
	1.0	X			

The emphasis in boy's physical education on the freshman level is on weight training, fitness, team building through the use of the ropes course, and the fundamentals of physical education as learned through participation in mostly individual sports.

BEGINNING SWIM (PE 230)

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Prerequisite: PE 110/120

This class is intended for the new swimmer who wants to learn how to swim. Red Cross levels 1 through 3 will be emphasized along with snorkeling. Skills will focus on strokes, kicks, turning, floating, and treading water.

ADVANCED SWIM (PE 330)

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Prerequisite: PE 230 or Department Approval

This class is intended for the advanced swimmer who wants to improve upon his or her skills learned in Beginning Swim. Red Cross levels 4 through 6, fitness swimming, and timed strokes for improvement will be emphasized.

HEALTH (PE 240)

<i>Elective</i>	Credit	9	10	11	12
	1.0	X	X	X	X

This class is meant to teach students ways to make healthy decisions in all areas of their lives. The behavioral, mental, emotional and spiritual welfare of teenagers will be focused on in areas like managing stress, mental and emotional problems, healthy relationships, resolving conflicts, nutrition and weight control, alcohol, and drugs, and sexually transmitted diseases.

LIFETIME AND OUTDOOR ACTIVITIES (PE 250)

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Prerequisite: PE 110/120

This class will focus on activities that can be done throughout your lifetime and various outdoor activities. Activities may include but are not limited to, walking, jogging, golf, archery, volleyball, badminton, rock climbing, and the high ropes challenge course.

INDIVIDUAL MOVEMENT (PE 350)

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Prerequisite: PE 110/120

This class will focus on activities that involve individual awareness. Activities may include but are not limited to dance-where you will have to come up with a dance routine, self-defense, walking, yoga/relaxation, bowling, water aerobics, badminton, golf, and a variety of fitness activities. This is a class for those students who may not like the team sports and large group games.

BEGINNING STRENGTH AND CONDITIONING (PE 260)

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Prerequisite: PE 110/120

This class is geared toward students interested in personalized weight lifting goals or lifting for strength and speed for athletics. The majority of class time will be spent in the weight room. Cardiovascular and speed training will balance time spent strength training. Traditional sports will be played occasion.

ADVANCED STRENGTH AND CONDITIONING (PE 360)**Prerequisite: PE 260 or Department Approval**

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

This class is offered for varsity and junior varsity athletes who are training specifically for their particular sports both in and out of season. Curriculum for this course is developed with input from the varsity coaches.

TEAM SPORTS I (PE 270)**Prerequisite: PE 110/120**

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

This course will feature traditional units such as flag football, soccer, volleyball, eclipse ball, floor hockey, badminton, water polo, and team handball. The class is geared toward students who enjoy the competitive nature of team sports and the opportunity to learn the value of teamwork and responsibility.

TEAM SPORTS II (PE 370)**Prerequisite: PE 270**

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

This course will give students an opportunity to focus and expand on the units previously played in Team Sports I. Students will have the ability to choose activities for participation along with forming teams and self-referring games.

PHYSICAL EDUCATION LEADERSHIP (PE 400/410)**Prerequisite: Department Approval**

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

This course is designed to equip the student with the skills of leadership through Physical Education. Students will work on peer leadership by assisting the PE instructor with PE I or elective courses as necessary. This course may be taken in place of a PE elective when three previous semesters have been successfully completed. (*Limited Enrollment*)

SUMMER PHYSICAL EDUCATION (PE 500)**Prerequisite: 3.0 Cumulative GPA, Must Carry 16 Credits during the School year, Department Approval, Fee of \$175**

<i>Elective</i>	Credit	9	10	11	12
	1.0	X	X	X	X

Summer P.E. is a course designed to accommodate students who are not able to schedule all the classes they need or want in their schedule. This course is also only available to high achieving students. Students are expected to complete and document 60 hours of physical activity. The log/folders and mandatory evaluation days scheduled throughout the summer is the basis for assessment. (*Limited Enrollment*)

RELIGION

8 Credits Required

FRESHMAN RELIGION (RE 110/115)

<i>Required</i>	Credit	9	10	11	12
	2.0	X			

This course pursues a chronological study of the Old Testament. There is a clear emphasis on Christian Worldview, and support for the reliability and infallibility of the Bible right from creation. The faith and lives of the people of the O.T. are studied to provide the student with a deeper understanding of their own day-to-day relationship with God. Special emphasis is placed on the Messianic prophecies and their fulfillment in Jesus Christ.

SOPHOMORE RELIGION (RE 210/215)

<i>Required</i>	Credit	9	10	11	12
	2.0		X		

This course focuses on the life of Christ as portrayed in the four Gospels with an emphasis on its impact on the personal life of the student. Time is also spent on understanding the Church as God's mission as shown in the book of Acts and helping the student to understand the Church and themselves in light of the Christian past.

JUNIOR RELIGION (RE 310/315)

<i>Required</i>	Credit	9	10	11	12
	2.0			X	

This course centers on the deep truths taught in the book of Romans. There is a focus on the Holy Spirit with His power to change our lives that are poured out through the pure power of the Gospel. Time is also spent dealing with practical challenges of Christian living presented in Paul's letter of 1 Corinthians. Proper scripture interpretation principles and support for the authenticity and faithfulness of the Bible are taught. Students engage in praying, sharing and confidently defending their faith against the wickedness of the World.

SENIOR RELIGION (RE 410/415)

<i>Required</i>	Credit	9	10	11	12
	2.0				X

This course helps seniors explain why Christianity is true as well as helping students grasp the various worldviews that permeate our culture. It analyzes different understandings of truth, reality, and how people should live. The course also includes a systematic study of James through Revelation, emphasizing relevant issues and current events that relate to these books. There is also careful preparation of students getting ready for the challenges of college.

MARRIAGE & FAMILY RELATIONSHIPS (RE 420)

<i>Elective</i>	Credit	9	10	11	12
	1.0				X

This course covers a Christian understanding of the value of marriage in the culture of American society. The course is designed for students to see why God's design for marriage is best for the individual, couple, family and society. Class work and discussion are designed to give a basic understanding of personal relationships, communication skills, the importance of faith, finances and parenting within a Christian marriage.

SCIENCE**6 Credits Required**

Science course selection can be constructed in the following manner:						
FRESHMEN		SOPHOMORE		JUNIOR		SENIOR
Physical/Life Science	⇒	Biology	⇒	Earth in Space/The Dynamic Earth, Chemistry, <i>or</i> Physics	⇒	Earth in Space/The Dynamic Earth, Chemistry, <i>or</i> Physics
Biology	⇒	Chemistry	⇒	Physics <i>or</i> Science Electives	⇒	Science Electives, Honors, <i>or</i> A.P. Physics

PHYSICAL/LIFE SCIENCE (SC 110/115)

<i>Required</i>	Credit	9	10	11	12
	2.0	X			

This course is designed to give a well-rounded understanding of the basic principles and processes in each of the major fields of science. Special emphasis will be placed on the skills necessary to the effective study of science such as: measurement, metric system, graphing, microscopy, scientific method, basic laboratory skills, data interpretation and writing the laboratory report. After successful completion of this course, the student should be well prepared for taking other department courses.

BIOLOGY (SC 210/215)

<i>Required</i>	Credit	9	10	11	12
	2.0	X	X	X	X

Prerequisite: Concurrently taking MA 160/165 or higher

The course will cover all major fields in biology; the units of study include botany, cytology, genetics, bioethics, human anatomy and physiology, creation and evolution, and zoology. The course is taught from a creation perspective. A variety of learning strategies is utilized including lecture, reading, independent research, video and computer presentation and an extensive use of hands on laboratory investigations.

EARTH IN SPACE (SC 310)

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Prerequisite: SC 210/215 and MA 160/165 or higher

Students will investigate the nature of Earth Science and inquiry, ecology, astronomy, time, seasons, mapping, and meteorology. Teaching methodologies include lecture, video presentation and laboratory investigation.

THE DYNAMIC EARTH (SC 320)

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Prerequisite: SC 210/215 and MA 160/165 or higher

Students will investigate topography, watersheds, geology, plate tectonics, volcanoes, and earthquakes. Teaching methodologies include lecture, video presentation and laboratory investigation.

CHEMISTRY (SC 330/335)

<i>Elective</i>	Credit	9	10	11	12
	2.0		X	X	X

Prerequisite: SC 210/215 and concurrently taking MA 210/215 or higher

Students in chemistry study the composition of matter and its changes. This includes the structure of the atom, chemical bonding, chemical reactions, and the states of matter. The skills and techniques of laboratory investigation, observation and analysis are emphasized.

PHYSICS (SC 350/355)

<i>Elective</i>	Credit	9	10	11	12
	2.0		X	X	X

Prerequisite: SC 210/215 and concurrently taking MA 210/215 or higher

Students in this course will study in the following areas: mechanics, thermodynamics, wave motion phenomena and its relation to sound and light, electricity, modern physics. Lab work is required.

INTRODUCTION TO FORENSIC SCIENCE (SC 360)**Prerequisite: SC 210/215**

Students will learn the methodology needed to evaluate a crime scene, the proper lab mechanics needed to evaluate evidence, and how to compare between a known and unknown. Students will learn how DNA, fingerprinting, and other forensic tests can be used to solve a crime. The learning strategies used will include lecture, labs, research, activities, and videos.

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

SUSTAINABLE AGRICULTURE (SC 370)**Prerequisite: SC 210/215**

We all eat food. Where does it come from? How can the world be fed? How can we grow produce in an urban environment? Learn about sustainable agriculture and join the growing trend of urban agriculture. Students will learn about gardening, the farm-to-table food movement, and raising animals.

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

HONORS ANATOMY AND PHYSIOLOGY (SC 400)**Prerequisite: Department Honors Application, SC 210, and has taken or is concurrently taking SC 330 and SC 350.**

Students will build on information learned in biology and focus specifically on human anatomy and physiology. Through lecture, lab, and activities, students will review human anatomy and increase their knowledge in how the human body works. They will learn language of anatomy and increase knowledge of the chemical, cellular, and tissue level of organisms before beginning some body systems. This course is beneficial for those taking anatomy in college. (*Limited enrollment.*)

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

HONORS MICROBIOLOGY (SC 410)**Prerequisite: Department Honors Application, SC 210, and has taken or is concurrently taking SC 330 and SC 350.**

Microbiology and Gross Biology are mirrored after college-level General Biology 1 and 2. It would be best to take them in succession to get the full college prep experience. Microbiology will focus on the scientific method, biochemistry, cells, enzymes and metabolism. (*Limited enrollment.*)

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

HONORS GROSS BIOLOGY (SC 420)**Prerequisite: Department Honors Application, SC 210, and has taken or is concurrently taking SC 330 and SC 350.**

Microbiology and Gross Biology are mirrored after college-level General Biology 1 and 2. It would be best to take them in succession to get the full college prep experience. Gross Biology will focus on classification and taxonomy, body systems, creation and evolution, and genetics. (*Limited enrollment.*)

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

HONORS INORGANIC CHEMISTRY (SC 430)**Prerequisite: Department Honors Application, SC 330, and has taken or is concurrently taking SC 350.**

This Honors course is an individually structured course with extensive emphasis on laboratory work. Laboratory work includes quantitative analysis, chemical synthesis, and other experiments. An overview of general chemistry concepts and problems is also discussed. (*Limited enrollment.*)

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

HONORS ORGANIC CHEMISTRY (SC 440)**Prerequisite: Department Honors Application, SC 330, and has taken or is concurrently taking SC 350.**

This Honors course is an individually structured course with extensive emphasis on laboratory work. Laboratory work includes an introduction to organic chemistry lab techniques and preparations, qualitative analysis, and other experiments. An overview of general chemistry concepts and problems is also discussed. (*Limited enrollment.*)

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

A.P. PHYSICS 1 (SC 550/555)**Prerequisite: Department Honors Application, SC350, & MA 350 or higher**

This Advanced Placement (A.P.) course will offer a year of physics study for the upper level science student. Through challenging content, each student will experience a semester of material from a trigonometry-based mechanics course at a college level. Content will include mechanics, electric circuits, and waves and sound. Lab work and extensive daily study time will be required. It is intended for students who are pursuing a science field for a career and/or wish to attempt to earn college credit and/or higher placement from a college or university by scoring appropriately on the A.P. Physics 1 exam. The student is expected to take the A.P. Physics Exam in May. (*Limited enrollment.*)

<i>Elective</i>	Credit	9	10	11	12
	2.0			X	X

SOCIAL STUDIES

6 Credits Required

Social Studies course selection can be constructed in the following manner:			
*FRESHMEN	SOPHOMORE	JUNIOR	SENIOR
Geography/Civics	⇒ US History I/II	⇒ Social Studies Electives	⇒ Social Studies Electives

*Starting with the Class of 2021, Freshmen will follow the sequence described above.

GEOGRAPHY/CIVICS (SS 110/SS 120)	<i>Required</i>	Credit	9	10	11	12
		2.0	X			

This course will give students an understanding of World Geography and the socioeconomic and political culture of various countries around the world. This course will also provide a basic overview of the American systems of Government and Economics. Students will learn about the foundations of our political and economic systems, how our government and economies function, major concepts in each system and the role of citizens in both. Students will also spend some time learning and discussing current events. The course will involve a good deal of experiential learning and real-life simulations.

U.S. HISTORY I & II (SS 310/SS 315)	<i>Required</i>	Credit	9	10	11	12
		2.0		X		

U.S. History I and II are semester length survey courses covering the history of our nation from Pre-1492 to the present time. This course will be taught thematically, meaning that topics will be covered instead of chronologically. The course will help the student understand what it means to be an American by studying our past, traditions and national experiences. Topics covered in U.S. History I are government, culture, reforms, and economics. Topics covered in U.S. History II are expansion, depression/recovery, foreign policy and domestic policy.

AFRICAN AMERICAN HISTORY (SS 360)	<i>Elective</i>	Credit	9	10	11	12
<i>Prerequisite: SS 110/120 AND SS310/315</i>		1.0			X	X

African American history is a semester length course that will specifically explore and analyze the experience of African Americans within the broader scope of American history. Beginning with a general history of Africa, this course will proceed chronologically through the present day. Students will learn about notable events, people, and places, with additional in-depth discussions of art, literature, music, and general evolution of African American culture over several hundred years. This course is designed to provide students with a more comprehensive understanding and appreciation for the history of African Americans."

SOCIOLOGY (SS 410)	<i>Elective</i>	Credit	9	10	11	12
<i>Prerequisite: SS 110/120 AND SS310/315</i>		1.0			X	X

Sociology offers a perspective, or a view of the world. Students taking this course will learn about the culture we live in, as well as different cultures from around the globe. Students will study how cultures influence people, and why societies do the things that they do. Various topics will be presented including racism, immigration, stereotypes, and the topic of church vs. state. Students will also discuss what makes something right or wrong, how stereotypes affect society, and what role a person's race, age, gender, or economic status plays in how they are treated by society. The study of Sociology helps us understand our society and why people might behave as they do. Assignments include in-class articles and reading assignments, as well as issue papers and class participation.

PSYCHOLOGY (SS 420)	<i>Elective</i>	Credit	9	10	11	12
<i>Prerequisite: SS 110/120 AND SS310/315</i>		1.0			X	X

The purpose of this course is to evaluate from a Christian perspective how psychology may be used to explain, predict, control, and improve human behavior. Students will gain a better understanding of chronological development; of how humans think, perceive, and learn; of how normality and deviancy are culturally defined; and of the biological and adaptive basis of behavior.

ECONOMICS (SS 430)	<i>Elective</i>	Credit	9	10	11	12
<i>Prerequisite: SS 110/120 AND SS310/315</i>		1.0			X	X

This course covers the basic concepts of economics: scarcity, the market system, business and its organization, production, supply and demand, money banking, the business cycle, government involvement, competition, and trade. Varying viewpoints to current problems are presented, and opportunity is provided to practice economic skills. Audio-visual aids supplement the textual and classroom presentations.

GOVERNMENT (SS 440)*Prerequisite: SS 110/120 AND SS310/315*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

This course deals with the basic ideal of political behavior and the operation of American government. It includes such topics as political influence, citizen participation, political parties, the role of the President, and the decision-making process. Brief stories and case studies are used to capture the vitality and drama of politics. Simulations, games, surveys, and films are also used. Students will be encouraged to participate in real-life politics.

CONTEMPORARY ISSUES (SS 450)*Prerequisite: SS 110/120 AND SS310/315*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

The understanding of current events of our present society will make it much easier for our students to perceive the trends that will influence their lives tomorrow. This course thoroughly covers the issues and trends (economic, racial, religious, governmental, etc.) displayed in the media and other forms of information. Students actively participate in discussions, projects, cooperative teams, and problem solving activities as they relate to current course content.

A.P. WORLD HISTORY (SS 500/505)*Prerequisite: Department Approval*

<i>Elective</i>	Credit	9	10	11	12
	2.0			X	X

This Advanced Placement course will offer an intensive, college level study of the world (1500 BC to Present) for the upper level social studies student. Students will experience college level topics and material in World History through a rigorous and challenging curriculum. The course is intended for students who are pursuing a career in the field of social sciences and/or desire to attempt to earn college credit and/or placement from a college by scoring appropriately on the AP examination given annually in May. (Limited enrollment)

A.P. U.S. HISTORY (SS 550/555)*Prerequisite: Department Approval*

<i>Elective</i>	Credit	9	10	11	12
	2.0		X	X	X

This Advanced Placement (A.P.) course will offer an intensive, college level study of United States history for the upper level social studies student. Students will experience college level topics and material in American history through a rigorous and challenging curriculum. The course is intended for students who are pursuing a career in the field of social sciences and/or desire to attempt to earn college credit and/or placement from a college by scoring appropriately on the A.P. examination given annually in May. (Limited enrollment)

TECHNICAL EDUCATION

Technical Education course selection can be constructed as follows:			
FRESHMEN	SOPHOMORE	JUNIOR	SENIOR
Intro to Technical Education	⇒ Technical Education Electives	⇒ Technical Education Electives	⇒ Advanced Tech Ed Electives / Industry Internships
Introduction to Engineering	⇒ Engineering Machine Design	⇒ Robotics, Computer Aided Design (CAD), Electronics	⇒ Robotics, Computer Aided Design (CAD), Electronics

INTRODUCTION TO TECHNICAL EDUCATION (TE 110)

<i>Elective</i>	Credit	9	10	11	12
	1.0	X	X	X	X

This semester course is designed to teach the student life-skills in the use of hand and power equipment. Through the construction of various projects, the student will learn tool safety skills, measurement, quality control, and production. (Materials fee: \$50)

INTRODUCTION TO ENGINEERING (TE 120)

<i>Elective</i>	Credit	9	10	11	12
	1.0	X	X	X	X

This course will allow students to learn who engineers are and what they do. Students will learn how to use Computer Aided Drafting (CAD) software to design a variety of parts and assemblies. Students will use different scenarios to learn to apply the engineering problem solving process.

ARCHITECTURAL DESIGN (TE 210)*Prerequisite: TE 110*

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

This semester course is designed to expose students to the fields of architecture, interior design, and construction. Topics of study will include architectural styles, Computer Aided Design (CAD), design elements and principles, home layout, building materials, and the construction process. (Material fee: \$25)

SMALL ENGINES (TE 220)*Prerequisite: TE 110*

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Students will learn key mechanical concepts to service lawn mowers, power washes, and more. This course will provide students with a working knowledge of basic small engine repair to understand different components of engines and how they work together. Students will learn basic operation of engines and be able to identify and troubleshoot parts of engines. The course ends with a capstone project of disassembling and reassembling an engine, including a test for functionality. (Material fee: \$25)

WOODWORKING (TE 230)*Prerequisite: TE 110*

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

This course is designed to build on the fundamental skills developed in fabrication and assembly. Students will learn to use additional tools, machinery, and techniques to build more complex projects. Students will also learn to develop, design, plan, and estimate projects and how to set up and maintain shop equipment. Students will learn to incorporate CNC manufacturing into their projects. (*Materials fee: \$60+ cost of third project*)

METAL FABRICATION (TE 240)*Prerequisite: TE 110*

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Students will learn the fundamentals of metal working while looking at cutting, forming, and the joining of metal materials. Students will also learn some blueprint reading, the identification of symbols, and welding theory culminating with a capstone project which encompasses the different skills acquired throughout the semester. (Material fee: \$25)

ENGINEERING MACHINE DESIGN (TE 250)*Prerequisite: TE 120*

<i>Elective</i>	Credit	9	10	11	12
	1.0		X	X	X

Students will learn and apply concepts related to simple machines, pulleys, gears, springs, and other mechanical devices to build complex problem-solving machines. Examples of potential projects include catapult design and Rube Goldberg machines.

BUILDING TRADES (TE 310)*Prerequisite: TE 110 & TE 210*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

This course is designed for students to survey various building trades and develop the skills necessary to pursue a career in the construction industry. Trades explored in this class include electrical, plumbing, and carpentry among others.

ENGINEERING DESIGN AND ROBOTICS (TE 330)*Prerequisite: TE 120 & TE 250*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Students will learn how various forms of energy are used in design. Major areas of study will include electrical circuits, hydraulics, pneumatics, solar power, engines, and robotic programming and control.

ADVANCED COMPUTER AIDED DESIGN (TE 340)*Prerequisite: TE 120 & TE 250*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Students will expand on the introduction to CAD from Introduction to Engineering to investigate the subject in more depth. Areas of study will include assemblies, animations, engineering drawings, and blueprint reading. Additional emphasis will be placed on the relationship between design and manufacturing. (Material fee: \$25)

ELECTRONICS (TE 350)*Prerequisite: TE 120 & TE 250*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

This course is designed to expose students to the world of electronics. Students will learn the theory of electric circuits and their many applications. The course will culminate in a capstone group project in electronics. (Material fee: \$25)

TECHNICAL EDUCATION INDEPENDENT STUDY (TE 410)*Prerequisite: Department Approval*

<i>Elective</i>	Credit	9	10	11	12
	1.0			X	X

Students will work alone or in small groups of other Independent Study students on a variety of enrichment projects. Projects will vary based on the content group of courses completed prior to independent study. Students are eligible if they have completed all courses in a content group (Home Design, Woodworking, or Engineering Design).

TRANSITION EDUCATION

Students who participate in these courses will have demonstrated a need for a modified curriculum. Transition courses in English, Mathematics, Science, and Social Studies are offered on a rotating basis.

COMPUTER PROCESSING (BU 120)

<i>Elective</i>	Credit	9	10	11	12
	1.0	X	X	X	X

This course is designed for beginning students to produce an introductory knowledge of Word, Excel and Power Point. Students develop increasing skill levels in keyboarding speed and accuracy and will continue to expand their knowledge of word processing, producing both personal and business documents, spreadsheets, database management and presentation and graphics. The course is applicable to students for both personal and vocational use.

BASIC ENGLISH (EN 900/905)

Next Offered: 2021-2022

Prerequisite: Department Approval

Credit	9	10	11	12
2.0	X	X		

This course for students in Grades 9 and 10 will reinforce and improve the students' knowledge and use of grammar, vocabulary, and parts of speech. Students will learn how to correctly write simple, complex, and compound sentences. They will also learn to write and revise paragraphs that inform, persuade, or tell a story. Additionally, students will explore business and personal writing.

FUNDAMENTAL WORLD LITERATURE (EN 910/915)

Next Offered: 2020-2021

Prerequisite: Department Approval

Credit	9	10	11	12
2.0	X	X		

This course will enhance students' understanding of literature through exposure to various genres from around the world. Additionally, word attack and comprehension skills will be enhanced as students study short works of fiction, nonfiction, drama, poetry, persuasive literature and humorous literature.

PRACTICAL ENGLISH (EN 930/935)

Next Offered: 2020-2121

Prerequisite: Department Approval

Credit	9	10	11	12
2.0			X	X

This course offers students the opportunity to learn life-skills applications of the English language. Through skill-based lessons, vocabulary, and frequent practice and review, students will be able to make the important connection between basic English skills and their own lives. Topics include: shopping, communicating in the workplace, English for independent living, citizenship, health and safety, recreation and personal expression.

PRINCIPLES OF COMMUNICATION (EN 950/955)

Next Offered: 2021-2022

Prerequisite: Department Approval

Credit	9	10	11	12
2.0			X	X

Semester 1 of this course offers thorough instruction in the fundamentals of writing sentences and paragraphs and leads to learning to write for various academic and life purposes. In the second semester, in addition to continuing instruction about writing for different purposes, students will explore formal and informal oral communication skills. Through research, writing, and classroom presentations, students will learn about non-verbal communication; group dynamics and communication; listening skills; and communication in the workplace.

BASIC MATH 1, 2, 3, 4 (MA 900, MA 910, MA 920, MA 930)

Prerequisite: Department Approval

Credit	9	10	11	12
2.0	X	X	X	X

This course is an individualized skill development course in basic math calculations. Students will work at an individual pace to master basic mathematical operations. Those that finish the 150 objective Accelerated Math program will be prepared for Pre-Algebra. Students who have struggled in other math courses may use this course to hone up on skills they are lacking in order to gain math competency.

GENERAL SCIENCE (SC 900/905)

Next Offered: 2020-2021

Prerequisite: Department Approval

Credit	9	10	11	12
2.0	X	X		

This course is designed to give a well-rounded understanding of basic physical science principles and explore various fields of science using materials at a reading level that promotes success for students who struggle in reading and/or math. A variety of learning strategies are utilized to enhance this science experience.

FUNDAMENTAL BIOLOGY (SC 910/915)*Next Offered: 2021-2022**Prerequisite: Department Approval*

This course is designed to give a well-rounded understanding of basic biology principles using material at a reading level that promotes success for students who struggle in reading and/or math. A variety of learning strategies are utilized to enhance this science experience.

Credit	9	10	11	12
2.0	X	X		

INTRODUCTION TO WORLD COMMUNITIES (SS 900/905)*Next Offered: 2020-2021**Prerequisite: Department Approval*

This course is designed to give a well-rounded understanding of communities in various parts of the world, which may include Africa, Asia, Europe, North America and South America using materials at a reading level that promotes success for students who struggle in reading. A variety of learning strategies are utilized to enhance this experience.

Credit	9	10	11	12
2.0	X	X	X	X

TRANSITION U.S. HISTORY 1 & 2 (SS 910/915)*Next Offered: 2021-2022**Prerequisite: Department Approval*

This course is designed to give a well-rounded understanding of the development of the United States using a textbook that is at a reading level that promotes success for students who struggle in reading. A variety of learning strategies are utilized to enhance this history experience.

Credit	9	10	11	12
2.0	X	X	X	X

BASIC ECONOMICS (SS 930)*Next Offered: 2022-2023**Prerequisite: Department Approval*

This course covers the basic concepts of economics including: production, supply, demand, money, banking systems and the stock market. Materials and activities used in this course are at a reading level that promotes success for students who struggle in reading. A variety of learning strategies are utilized to enhance this experience in economics.

Credit	9	10	11	12
1.0	X	X	X	X

FOUNDATIONS OF GOVERNMENT (SS 940)*Next Offered: 2022-2023**Prerequisite: Department Approval*

This course deals with the basic ideals of political behavior and the operation of American government. It includes topics such as political parties, the role of the president, citizenship and the decision making process. The textbook that is used is at a reading level that promotes success for students who struggle in reading. A variety of learning strategies are utilized to enhance this topic.

Credit	9	10	11	12
1.0	X	X	X	X

ACADEMIC EVALUATION

The standard recommended grading scale for Transition courses is as follows:

A	4.000	(100-93)	C+	2.333	(78.99-75.5)	D-	0.667	(61.5-58)
A-	3.666	(92.99-89.5)	C	2.000	(75.49-72)			
B+	3.333	(89.49-86)	C-	1.667	(71.99-68.5)	F	0.000	(57.99-0)
B	3.000	(85.99-82.5)	D+	1.333	(68.49-65)			
B-	2.666	(82.49-79)	D	1.000	(64.99-61.5)			