Joliet Township High School
Course Offering Guide

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COURSE OFFERINGS
OF
JOLIET TOWNSHIP HIGH SCHOOL

2021-2022

Board of Education

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Mrs. Dianne McDonald
Assistant Superintendent for Educational Services

Mr. Shad Hallihan
Principal, Central Campus

Dr. Teresa Gibson
Principal, West Campus

Americans with Disabilities Act (A.D.A.) and Section 504 of the Rehabilitation Act of 1973

Joliet Township High School District 204 follows the provisions of A.D.A. and Section 504 of the Rehabilitation Act of 1973 that prohibits discrimination on the basis of an individual's disability and offers to persons with a disability the opportunity to participate fully in all educational programs and activities. The A.D.A. and Section 504 Coordinator is Mrs. Dianne McDonald, Assistant Superintendent for Educational Services.

Joliet Township High School District 204 ensures equal educational opportunities are offered to students, regardless of race, color, national origin, age, gender, religion, disability, veteran's status, or marital status.

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GRADUATION REQUIREMENTS (Board Policy 6:300)

The minimum requirements for graduation are 22.0 credits as follows:

_____	English (Taken sequentially)	4 years
_____	Math (Must include a minimum of Algebra 1, Geometry, and Advanced Algebra)	3 years
_____	Science (At least one credit must be in Biology)	2 years
_____	Social Science (Credits must be in World Affairs or AP Human Geography, U.S. History, and American Government)	2.5 years
_____	Health	1 semester
_____	Art/Career & Technical Education/Music/World Language (In any combination. Proficiency in American Sign Language shall be considered an alternative to a world language)	1 year
_____	Physical Education (All students must be enrolled in and pass P.E. or R.O.T.C. each semester enrolled in school, except the semester of Health and the semester of Driver Education)	
_____	Consumer Education (Illinois Consumer Education Requirement can be met by taking Economics, Consumer Economics, Orientation to Business & Personal Finance or any Cooperative Education course [2nd Semester] excluding Cosmetology).	
_____	All students must successfully pass the U.S. Constitution Test	
_____	All students must take the mandated state assessments unless the student is exempt according to 105 ILCS 5/2-3.64.	
_____	All students must have 40 hours of Community Service (Transfer students need 5 hours for each semester they are in attendance)	
_____	Beginning with the 2020-2021 school year, filing one of the following: (1) a Free Application for Federal Student Aid (FAFSA) with the U.S. Dept. of Education, (2) an application for State financial aid, or (3) an Ill. State Board of Education (ISBE) waiver form indicating that the student understands what these aid opportunities are and has chosen not to file an application. If the student is not at least 18 years of age or legally emancipated, the student's parent/guardian must file one of these documents on the student's behalf. A student is exempt from this requirement if: (1) the student is unable to file a financial aid application or an ISBE waiver due to extenuating circumstances, (2) the Building Principal attests the District made a good faith effort to assist the student or the student's parent/guardian with filing a financial aid application or an ISBE waiver form, and (3) the student has met all other graduation requirements.	

Graduation requirements are subject to change due to Illinois School Code and/or J.T.H.S. Board policy.

COLLEGE ENTRANCE REQUIREMENTS

Students planning to enter a four-year university or who plan to enroll in a community college transfer degree program should complete the following recommended course of study:

English	4 Years
Math (including Algebra, Geometry, Advanced Math)	4 Years
Science (must be Laboratory Sciences)	3 Years
Social Science	3 Years

Each college has its own entrance requirements, and it is essential that parents and students carefully review the specific requirements for admission to the colleges being considered.

GRADING

Grade Point Average (G.P.A.) (BoardPolicy 6:330)
Courses are designated as either weighted or unweighted. A weighted grade system is used at J.T.H.S. to compute Grade Point Average (G.P.A.). Weighted grades take into account both student achievement and course difficulty. A grade weight is given to each course based upon its relative difficulty.

The following two-tiered weighting system will be used to compute Grade Point Average (G.P.A.).

Un-weighted Courses		Weighted Courses	
A	4	A	5
B	3	B	4
C	2	C	3
D	1	D	2
F	0	F	0

Grades are assigned numeric equivalents as follows:
A = 4 points B = 3 points C = 2 points D = 1 point F = 0 points
The grading system used for progress and semester reports is as follows for all students:

100	-	90	=	A	59 and Below = F
89	-	80	=	B	I = Incomplete
79	-	70	=	C	WP = Withdrawal Passing
69	-	60	=	D	

Students receiving an "I" have two (2) weeks in which to complete the work. It is the student's responsibility to contact the teacher with regard to completion of course requirements. If the requirements are not completed within two weeks, the grade becomes an automatic "F".

Students withdrawing from a class AFTER the first nine weeks of a semester, will receive a "WP" if passing the class at the time of withdrawing and an "F" if failing at the time of withdrawal. Student permanent records reflect semester grades only.

Academic Recognition (Board Policy 6:280)
J.T.H.S. has adopted a system of Cum Laude recognition based on the following G.P.A.:
3.5 to 3.74 = Cum Laude
3.75 to 3.99 = Magna Cum Laude
4.0 = Summa Cum Laude

Campus Parent Portal
We strongly encourage all parents to monitor progress on a regular basis through the Campus Parent Portal. Campus Parent is accessible over the internet and provides current information regarding students such as assignments, attendance, behavior, documents, grades, schedules and more. Also, links are provided throughout for contacting each student's teachers by email. Alerts can be setup for things like assignment scores, attendance updates and grade updates by choosing "Settings" and then "Notification Settings" from the drop down in the upper right hand corner person icon. Campus Portal is available at https://jolietil.infinitecampus.org/campus/portal/joliet.jsp, use the dropdown "Quick Links" option available in the upper right hand corner of our website at www.jths.org or download the Campus Parent mobile app from the App Store or Google Play. For assistance, please contact the Information Technology Services by emailing centralstudenthelpdesk@jths.org, weststudenthelpdesk@jths.org or by calling 815-727-6860.

COMMUNITY SERVICE EXPERIENCE (Board Policy 6:300)

Community service is an act which contributes to the improvement of a community. In order to graduate, all students shall complete 40 hours of voluntary (no pay) community service. (Transfer students need 5 hours for each semester they are in attendance). Activities completed through a school or not-for-profit organization that benefits a community may be considered for community service credit. This requirement is for the betterment of the student and community. Students are responsible for selecting an appropriate service, contacting the responsible agency, preparing and processing an application form, completing the service, and returning a verification certificate to the school.

The student's counselor will maintain a record of community service as part of the student's file. Service to the school district is acceptable if the service is completed outside the regular school day.

The service agency is responsible for screening and approving specific applicants. The service agency is also responsible for all supervision and for completing the verification document. The student is expected to conform to all requirements and expectations of the service agency. The service agency can terminate the arrangement at any time with or without cause.

PHYSICAL EDUCATION (Board Policy 6:310)

A. All students must be enrolled in and must pass a Physical Education class each semester that they are enrolled in day school. Exceptions:

1. Students enrolled in Health in lieu of one semester of Physical Education;
2. Students enrolled in Driver Education.

B. Students may apply for an approved exemption from Physical Education if they meet one of the following requirements:

1. Ongoing participation in a marching band program for credit;
2. Enrollment in Reserve Officer's Training Corps (ROTC) program sponsored by the District;
3. Ongoing participation in an interscholastic or extracurricular athletic program;
4. Enrollment in academic classes that are required for admission to an institution of higher learning (student must be in the 11th or 12th grade); or
5. Enrollment in academic classes that are required for graduation from high school, provided that failure to take such classes will result in the student being unable to graduate (student must be in the 11th or 12th grade).

SUMMER SCHOOL

The Joliet Township High School Summer School program begins in June and offers a variety of high school credit courses. Students may enroll in summer school after the start of the second semester of the current school year. Students should see their counselor regarding summer school enrollment. Courses may or may not be offered, depending upon the number of students enrolled. The Summer School program is self-supporting with most courses requiring tuition and fees.

TRANSFER STUDENT INFORMATION

Students' transcripts will be evaluated and converted to the District 204 weighted grade system. The grade weight assigned to a specific course will be changed if the student can provide evidence that a higher grade weight is warranted.

Transfer students should carefully read the policies regarding the Physical Education/Driver Education/R.O.T.C. exclusion options and contact their counselors within ten (10) school days following registration if they wish to apply for either of these options.

NCAA ELIGIBILITY REQUIREMENTS

The National Collegiate Athletic Association regulations regarding college freshman eligibility to receive athletically-related financial aid and to participate in athletics at any Division I and II college or university are as follows:

The following information applies to Division I and II athletes enrolling in college before August 1, 2016:

1. A minimum 2.0 G.P.A. (on a 4.0 scale) in at least 16 core courses for students first entering any N.C.A.A. Division I or Division II college or university. Required areas include the following:
   English - 4 credits (Div. I) or 3 credits (Div. II)
   Mathematics - 3 credits in Algebra 1 or higher (Div. I) or 2 credits in Algebra 1 or higher (Div. II)
   Science - 2 credits in Natural/Physical Science - one must be a laboratory science (Div. I & II)
   Social Science - 2 credits (Div. I & II)
   English, Math, or Natural/Physical Science - 1 additional credit (Div. I) or 2 additional credits (Div II)
   Other - 4 credits (Div. I) or 3 credits (Div. II) of additional core courses (from any area above, or from World Language, nondoctrinal religion or philosophy).
2. Division I has a sliding scale for S.A.T. & A.C.T. test scores and uses the grade point average of only N.C.A.A.-approved core courses. Go to **www.ncaa.org** or **www.ncaaclearinghouse.net** for this information.
3. Division II has a minimum S.A.T. score requirement of 820 (based on Critical Reading and Math sections only) or a minimum A.C.T. sum score of 68 (based on English, Math, Reading & Science sections from test taken on a National Test date).

The following information applies to Division I athletes enrolling in college on or after August 1, 2016:

There are three possible initial-eligibility outcomes for Division I athletes enrolling in college on or after August 1, 2016. The following includes the description of each outcome and the associated requirements:

Qualifier: May receive athletics aid (scholarship), practice and compete in the first year of enrollment at the Division I college or university.

Requirements:

1. Complete 16 core courses (same distribution as in the past)
   - Ten of the 16 core courses must be completed before the start of the seventh semester (senior year) of high school.
   - Seven of the 10 core courses must be English, math or natural or physical science.
2. Have a minimum core-course grade-point average of 2.30;
   - Grades earned in the 10 courses required before the seventh semester are "locked in" for purposes of grade-point average calculation.
   - A repeat of any of the "locked in" courses will not be used to improve the grade-point average if the repeat occurs after the seventh semester begins.
3. Meet the sliding scale of grade-point average and A.C.T./S.A.T. score; and
4. Graduate from high school.

Academic Redshirt: May receive athletics aid (scholarship) in the first year of enrollment and may practice in the first regular academic term (semester or quarter) but may not compete in the first year of enrollment. The student-athlete must successfully complete nine semester hours or eight quarter hours in the initial term at his/her college or university to continue to practice in the next term.

1. Complete the 16 core-course requirement;
2. Have a minimum core-course grade-point average of 2.00;
3. Meet the sliding scale of grade-point average and A.C.T./S.A.T. score; and
4. Graduate from high school.

Student-athletes who fail to meet the required 10 core courses prior to the start of the seventh semester (seven of which must be in English, math or natural or physical science), will be allowed to retake core courses in the seventh or eighth semester, which will be used in their academic certification for the purposes of meeting the academic redshirt requirements.

Nonqualifier: Cannot receive athletics aid (scholarship), practice or compete in the first year of enrollment because student fails to meet the standards for a qualifier or for an academic redshirt.

When registering for the S.A.T. or A.C.T., use the Eligibility Center code of 9999 to make sure the score is reported to the Eligibility Center. All S.A.T. and A.C.T. scores must be reported directly to the N.C.A.A. Initial-Eligibility Clearinghouse by the testing agency. Test scores that appear on transcripts will no longer be used.

DUAL CREDIT COURSES

Students in grades 11 or 12 who meet the Joliet Junior College (JJC) requirements will be eligible to enroll in the courses listed below to earn both high school and college credit.

Applied Life Skills
- KIN 200 Introduction to Personal Training ..... KIN 200
- KIN 207 First Aid ..... KIN 207

Business Education
- Orientation to Business & Personal Finance ..... FIN 100

English
- Rhetoric 101/102 ..... RHET 101/102

Family and Consumer Sciences
- Consumer Economics ..... FIN 100
- Culinary Arts 2 ..... CA 106

Technology and Engineering
- Tech CAD, Architectural Drafting or Engineering Graphics or Advanced Drafting ..... CADD 101
- Vocational Auto Mechanics I ..... AS 106

Math
- AP Statistics ..... MATH 128
- Pre-Calculus and Trigonometry Honors ..... MATH 142
- AP Calculus AB ..... MATH 170

Science
- Biology 151/152 ..... BIO 151/152
- Chemistry 101/102 ..... CHEM 101/102
- Arboriculture ..... HORT 185
- Floral Design I ..... HORT 280
- Greenhouse Management and Production ..... HORT 281
- Introductory to Horticulture Science HORT100
- Landscape Plans ..... HORT 250

JJC DUAL CREDIT CAREER PROGRAMS

Advanced Integrated Maintenance Program (AIM)
- Basic Wiring and Circuit Design ..... EEAS 101
- Industrial Controls I ..... EEAS 111
- Industrial Maintenance Fundamentals ..... IMT 101
- Industrial Fluid Power ..... IMT 121

Law Enforcement
- Introduction to Public Safety Careers ..... EMS 100
- Introduction to Law Enforcement ..... LENF 101
- First Responder ..... EMS 101
- Introduction to Criminal Justice System ..... CRJ 100
- Introduction to Corrections ..... CRJ 105

Fire Science
- Introduction to Public Safety Careers ..... EMS 100
- Principles of Emergency Services ..... FSCI 101
- First Responder ..... EMS 101
- Introduction to Fire Prevention ..... FSCI 102

Certified Nurse Assistant
- Certified Nurse Assistant Training ..... NA 101

Students in grades 11 or 12 who meet the University of St. Francis (USF) requirements will be eligible to enroll in the following course listed below to earn both high school and college credit.

Family and Consumer Sciences
- Exploring the Teaching Profession ..... EDUC 107

For more information, contact: University of St. Francis at www.stfrancis.edu/ (800) 735-7500.

SCHEDULING INFORMATION

Process

1. Students will receive registration materials during the first semester so that parents will have the opportunity to discuss with their students the career academy options and course selections. Parents are encouraged to discuss course plans with students and select preliminary course requests.
2. Each student will meet with the counselor to complete scheduling. Students and parents can view finalized course requests using the online portal through Infinite Campus.
3. Any questions regarding the course selections should be addressed to the counselor.
4. All requests for schedule changes must be received by the designated deadline.

Schedule Change Requests

Because the registration process for the next school year begins early in the school year, ample time is allowed for careful planning by counselors, parents and students. Parents will have an adequate amount of time to review the student's course requests. Once the deadline for changes in course requests has passed, students are permitted to make changes to requests or schedules only when the changes fall within the established guidelines listed below:

1. A change due to summer school attendance.
2. A change due to a failure in the prerequisite for the course a student has requested.
3. A change due to an unresolved scheduling conflict.
4. A change related to health problems. A written statement from the student's physician is required.
5. A change made to correct a scheduling error made by the school staff.
6. Level changes are only made for the next academic school year and require a recommendation from the current core content teacher. Level change documents must be signed by the core content teacher and the appropriate District Curriculum Director before they are submitted to the counselor for consideration.

Failures

Students who fail a course may only repeat a course one additional time during the regular school day.

Options for recovering credit include:

1. Summer School - highly recommended due to the consistency with J.T.H.S. curriculum
2. Correspondence Course - credit limit of two (2) per School Board Policy 6:310
3. J.T.H.S. Gateway to Graduation Program - if available

Academy of Arts & Communication (AC)

The Academy of Arts & Communication is a small learning community where students receive a rigorous and relevant curriculum that prepares them for success in the pathways of Media Communications, Performing Arts and Visual Arts.

Media Communications

- Journalist
- Publisher
- Editor
- Author
- Radio/Television Host
- Photojournalist

Performing Arts

- Musician
- Singer
- Dancer
- Actor
- Producer
- Director

Visual Arts

- Artist
- Animator/Cartoonist
- Costume Designer
- Fashion Designer
- Interior Designer
- Photographer
- Landscape Designer
- Web Designer
- Graphic Designer

The Academy of Arts and Communication provides students with a comprehensive educational experience. The following opportunities are unique to the Academy of Arts and Communications. Opportunities may be campus-specific or subject to availability based on enrollment and other factors.

- Band, Choir, Orchestra, Speech, Art and Journalism competitions sponsored by the IHSA, Southwest Prairie Conference and/or the Illinois Music Educators Association
- Web Design and Logo Design Competitions
- School Play, School Musical, Opera Scenes and Variety Show concerts and performances
- Art Honor Society, Drama Club and Art Club
- Academy-specific electives such as Choir, Band, Orchestra, Art, Drama, Fashion Design, Web Design, Graphic Design, Video Editing and Animation
- Dual Credit and AP course offerings such as Music Theory and Studio Art
- Job Shadowing experiences related to Career Academy pathways
- Summer Internships related to Career Academy

*For a complete listing of academy-specific electives and Dual Credit/AP course offerings, visit the online Course Offerings Guide at www.jths.org.

Arts & Communication
Program of Study: Media Communications

Graduation Requirements: 22 Credits Total

Grade 9
1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

Grade 10
1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

Grade 11
1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

Grade 12
1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key
- ■ Available for Get-Ahead Summer School
- ● Available as Dual Credit
- ◤ Can be taken multiple times
- ◆ Dual Enrollment Program

Suggested Elective Sequence
- Photo 1 ■
- Multimedia Journalism & Writing
- Advanced Multimedia Journalism & Writing ◤
- Graphic Design / Web Design
- Animation & Video Editing

Related Electives
- Photo 2
- AP Studio Art – Photo ◤
- 3D Computer Animation

Additional Considerations
- World Language
- 3rd Year Science
- 4th Year Math

**** Some four-year universities may consider these courses in their entrance requirements.***

Arts & Communication
Program of Study: Performing Arts

Graduation Requirements: 22 Credits Total

Grade 9

1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

Grade 10

1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

Grade 11

1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

Grade 12

1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key

■ Available for Get-Ahead Summer School
● Available as Dual Credit
◤ Can be taken multiple times
◆ Dual Enrollment Program

Suggested Elective Sequence

Music	Theatrical
Band/ Choir/Orchestra Y1	Drama 1
Band/ Choir/Orchestra Y2	Drama 2
Band/ Choir/Orchestra Y3	Theatrical Studies ◤
Band/ Choir/Orchestra Y4	
AP Music Theory ◤	
Band/Choir/Orchestra/Jazz	

Still have Room

Music Appreciation	Intro to Art
Exploring the Teaching Profession ●	Woods & Construction 1
Orientation to Business and Personal Finance ●	Choir ◤
	Graphic Design/Web Design

Related Electives

Additional Considerations

World Languages
3rd Year Science
4th Year Math

**** Some four-year universities may consider these courses in their entrance requirements.***

Arts & Communication
Program of Study: Visual Arts

Graduation Requirements: 22 Credits Total

Grade 9
1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

Grade 10
1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

Grade 11
1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

Grade 12
1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key
- ■ Available for Get-Ahead Summer School
- ● Available as Dual Credit
- ◤ Can be taken multiple times
- ◆ Dual Enrollment Program

Suggested Elective Sequence

Studio Art	Fashion Design	Interior Design
Intro to Art	Intro to Art	Intro to Art
Photo 1 ■	Fashion Construction	Woods & Construction 1
Intermediate Art	Graphic Design/Web Design	TechCAD ■ ●
2D Art **OR** Photo 2	Photo 1 ■	Interior Design
AP Studio Art ◤	Apparel Merchandising & Design	Architectural Drafting ●
Animation & Video Editing	Cosmetology ◆	Graphic Design / Web Design
3D Computer Animation		

Related Electives

Refer to the other courses in this program of study if you have room

Additional Considerations

World Language
3rd Year Science
4th Year Math
**** Some four-year universities may consider these courses in their entrance requirements.***

Academy of Business Management & Information Systems (BMIS)

The Academy of Business Management & Information Systems is a small learning community where students receive a rigorous and relevant curriculum that prepares them for success in the pathways of Business, Information Technology and Culinary Arts.

Business

- Accountant
- Real Estate Representative
- Business Manager
- Financial Planner
- Marketing Manager
- Human Resource Manager

Information Technology

- Computer Programmer
- Software Engineer
- Video Game Developer
- Web Programmer
- Telecommunications

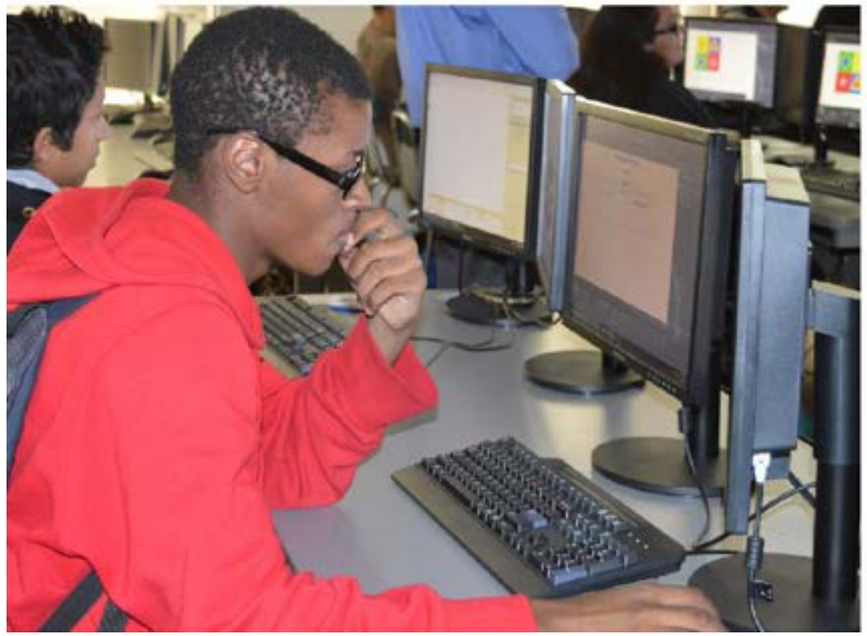
Culinary Arts

- Chef/Caterer
- Hotel/Restaurant Manager
- Event Planner
- Tourism & Travel Coordinator
- Recreation Activities Coordinator

The Academy of Business Management and Information Systems (BMIS) provides students with a comprehensive educational experience. The following opportunities are unique to the BMIS Academy. Opportunities may be campus-specific or subject to availability based on enrollment and other factors.

- Comp TIA A+ certification for computer repair technicians
- Pro Start National Certificate of Achievement for Culinary Arts is available to students through the National Restaurant Association Educational Foundation
- Abri Credit Union and Salon Professionals Cosmetology School partnerships
- Academy-specific electives such as Marketing, Accounting, Culinary Arts, Computer Repair, Computer Science Principles, and Orientation to Business and Personal Finance
- Dual Credit and AP course offerings such as Statistics, Computer Science A and Computer Science Principles
- Job Shadowing experiences related to Career Academy
- Summer Internships related to Career Academy

*For a complete listing of academy-specific electives and Dual Credit/AP course offerings, visit the online Course Offerings Guide at www.jths.org.



Business Management & Information Systems

Program of Study: Business

Graduation Requirements: 22 Credits Total

Grade 9

1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

Grade 10

1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

Grade 11

1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

Grade 12

1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key

- ■ Available for Get-Ahead Summer School
- ● Available as Dual Credit
- ◤ Can be taken multiple times
- ◆ Dual Enrollment Program

Suggested Elective Sequence

- Orientation to Business & Personal Finance ●
- Computer Applications
- Accounting
- Marketing
- Exploring Entrepreneurship

Related Electives

- Probability & Statistics ■ **OR** AP Statistics ●
- Graphic Design / Web Design
- Animation & Video Editing
- Photo 1 ■
- Career Exploration / Career Preparation

Additional Considerations

- World Language
- 3rd Year Science
- 4th Year Math

Some four-year universities may consider these courses in their entrance requirements.

Business Management & Information Systems

Program of Study: Culinary Arts

Graduation Requirements: 22 Credits Total

Grade 9

1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

Grade 10

1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

Grade 11

1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

Grade 12

1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key

- ■ Available for Get-Ahead Summer School
- ● Available as Dual Credit
- ◤ Can be taken multiple times
- ◆ Dual Enrollment Program

Suggested Elective Sequence

- Food Fundamentals ■
- Culinary Arts 1
- Orientation to Business & Personal Finance ●
- Culinary Arts 2
- Exploring Entrepreneurship

Related Electives

- Computer Applications
- Marketing
- Graphic Design / Web Design
- Photo 1 ■
- Accounting

Additional Considerations

- World Language
- 3rd Year Science
- 4th Year Math

Some four-year universities may consider these courses in their entrance requirements.

Business Management & Information Systems
Program of Study: Information Technology

Graduation Requirements: 22 Credits Total

Grade 9

1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

Grade 10

1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

Grade 11

1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

Grade 12

1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key

- ■ Available for Get-Ahead Summer School
- ● Available as Dual Credit
- ◤ Can be taken multiple times
- ◆ Dual Enrollment Program

Suggested Elective Sequence

Computer Applications
Computer Repair & Maintenance
AP Computer Science Principles
AP Computer Science A

Related Electives

4th Year of Math
Graphic Design / Web Design
Animation & Video Editing
3D Computer Animation

Additional Considerations

World Language
3rd Year Science

**** Some four-year universities may consider these courses in their entrance requirements.***

Academy of Health & Medicine

The Academy of Health & Medicine is a small learning community where students receive a rigorous and relevant curriculum that prepares them for success in the pathways of Health Science and Biomedical Science.

Health Science

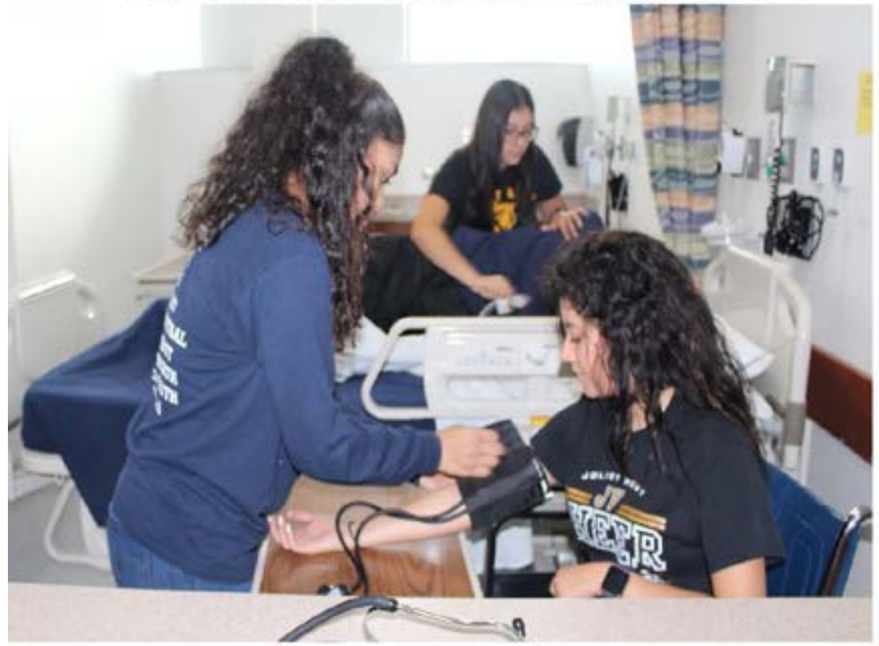
- EMT, Emergency Medical Technician
- Dental Hygienist/Dental Assistant
- Mortician
- Pharmacy Technician
- Ultrasound Technologist
- Radiology Technician
- Certified Nurse Assistant
- Certified Phlebotomy Technician
- Electrocardiography Technician

Biomedical Science

- Physician/Surgeon
- Nurse
- Dentist/Orthodontist
- Pharmacist
- Veterinarian
- Medical Examiner
- Physical Therapist
- Occupational Therapist
- Prosthetics
- Optometrist/Ophthalmologist
- Dietician

The Academy of Health and Medicine provides students with a comprehensive educational experience. The following opportunities are unique to the Health and Medicine Academy. Opportunities may be campus-specific or subject to availability based on enrollment and other factors.

- Illinois Certified Nurse Assistant (CNA) opportunity available through the NA 101 Dual Credit course
- Health Occupation Student Association (HOSA) Club that promotes leadership and career opportunities
- Academy-specific electives such as Medical Terminology, Health Careers, Health Information Technology, Medical Law & Ethics, PLTW Principles of Biomedical Science, PLTW Human Body Systems, PLTW Medical Interventions, PLTW Biomedical Innovation and Psychology
- Dual Credit and AP course offerings such as First Aid, Biology, Chemistry, Personal Training, Certified Nurse Assistant Program and Fire Science/ EMS
- Job Shadowing experiences related to Career Academy
- Summer Internships related to Career Academy



*For a complete listing of academy-specific electives and Dual Credit/AP course offerings, visit the online Course Offerings Guide at www.jths.org.

Health & Medicine
Program of Study: Health Sciences

Graduation Requirements: 22 Credits Total

Grade 9
1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

Grade 10
1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

Grade 11
1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

Grade 12
1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key
- ■ Available for Get-Ahead Summer School
- ● Available as Dual Credit
- ◤ Can be taken multiple times
- ◆ Dual Enrollment Program

Suggested Elective Sequence

Health Science
Health Information Technology / Medical Terminology
Chemistry
Medical Law & Ethics / Sociology

Related Electives

PLTW Principles of Biomedical Science
PLTW Human Body Systems
PLTW Medical Interventions
JJC Special Program: NA101 ◆ **OR** Fire Science & Emergency Medical Services ◆
AP Biology **OR** AP Chemistry **OR** AP Physics
Probability & Statistics ■ **OR** AP Statistics ●
Pre-Calculus **OR** Pre-Calculus & Trigonometry Honors ●

Additional Considerations

World Language

**** Some four-year universities may consider these courses in their entrance requirements.***

Health & Medicine
Program of Study: Biomedical Science

Graduation Requirements: 22 Credits Total

Grade 9
1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

Grade 10
1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

Grade 11
1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

Grade 12
1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key
■ Available for Get-Ahead Summer School
● Available as Dual Credit
◤ Can be taken multiple times
◆ Dual Enrollment Program

Suggested Elective Sequence

PLTW Principles of Biomedical Science
PLTW Human Body Systems
PLTW Medical Interventions
Chemistry
Psychology / Sociology **OR** AP Psychology
AP Biology **OR** AP Chemistry **OR** AP Physics

Related Electives

Pre-Calculus **OR** Pre-Calculus & Trigonometry Honors ●
Probability & Statistics ■ **OR** AP Statistics ●
Health Information Technology / Medical Terminology
Medical Law & Ethics

Additional Considerations

World Language
NA101 (JJC Nursing Program) ◆

**** Some four-year universities may consider these courses in their entrance requirements.***

Academy of Human Services

The Academy of Human Services is a small learning community where students receive a rigorous and relevant curriculum that prepares them for success in the pathways of Education; Government, Law & Public Safety; and Social Services.

Education

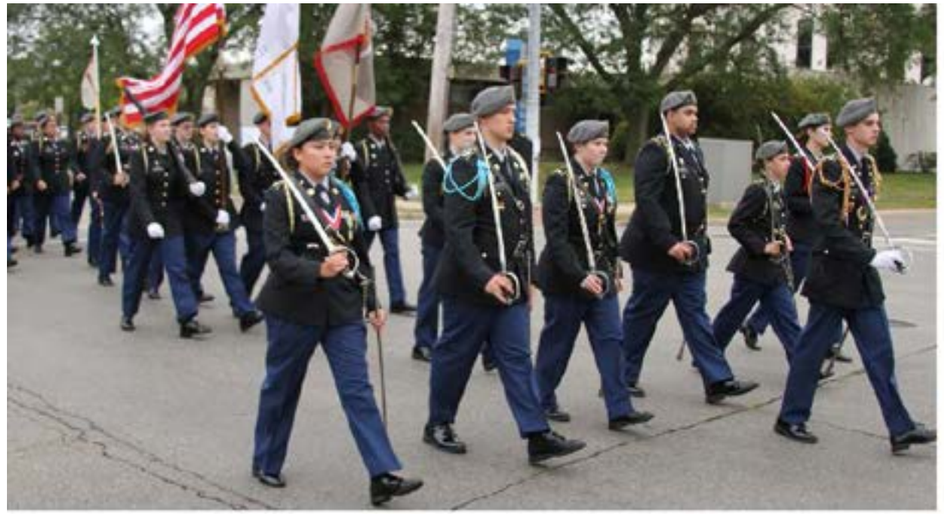
- Early Childhood Teacher, Assistant
- Elementary Teacher, Assistant
- Secondary Teacher, Assistant
- Guidance Counselor
- Librarian, Media Specialist
- Career Counselor
- Speech Language Pathologist
- Principal, Administrator

Government, Law, & Public Safety

- Attorney
- Police Officer/Criminal Investigator
- Judge
- Military/National Security
- Lobbyist
- Criminologist (CSI)
- Paralegal, Court Reporter

Social Services

- Social Worker
- Psychologist
- Counselor and Therapist
- Community Service Director
- Substance Abuse Counselor
- Employment Counselor
- Emergency and Relief Coordinator



The Academy of Human Services provides students with a comprehensive educational experience. The following opportunities are unique to the Academy of Human Services. Opportunities may be campus-specific or subject to availability based on enrollment and other factors.

- Gateways Early Childhood Education Credential Level 1 Certification available through the Early Childcare Education Course
- Joliet Police Explorers program provides relevant experience in law enforcement
- Teaching and community service opportunities provided through the Future Educators Club, Students of Service, Human Relations Club, and Key Club.
- Mock Trial Team competitions and debate development
- Hands-on teaching experience available through Tiger Tots and Steel Tots community daycare programs and the Exploring the Teaching Profession Course.
- JROTC classes and military-based extracurricular programs such as Raider Team, Rifle Team, Drill Team and Color Guard
- Academy-specific electives such as JROTC, Child Development, World Language, Psychology and Sociology
- Dual Credit and AP course offerings such as American National Government, Exploring the Teaching Profession, Psychology, Fire Science/ EMS and Law Enforcement
- Job Shadowing experiences related to Career Academy
- Summer Internships related to Career Academy

*For a complete listing of academy-specific electives and Dual Credit/AP course offerings, visit the online Course Offerings Guide at www.jths.org.

Human Services
Program of Study: Education

Graduation Requirements: 22 Credits Total

Grade 9
1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

Grade 10
1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

Grade 11
1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

Grade 12
1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key
- ■ Available for Get-Ahead Summer School
- ● Available as Dual Credit
- ◤ Can be taken multiple times
- ◆ Dual Enrollment Program

Suggested Elective Sequence
- Child Development
- Psychology / Sociology **OR** AP Psychology
- Early Childhood Education
- Exploring the Teaching Profession ●

Related Electives
- Computer Applications
- 3rd Year Science
- Class aligned to Education Specialty (i.e. Art, CTE, Math, Science, etc.)

Additional Considerations
- World Language
- 4th Year Math

**** Some four-year universities may consider these courses in their entrance requirements.***

Human Services
Program of Study: Government, Law, & Public Safety

Graduation Requirements: 22 Credits Total

Grade 9
1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

Grade 10
1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

Grade 11
1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

Grade 12
1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key
- ■ Available for Get-Ahead Summer School
- ● Available as Dual Credit
- ◤ Can be taken multiple times
- ◆ Dual Enrollment Program

Suggested Elective Sequence
- Computer Applications
- Law / Forensics
- Psychology / Sociology

Related Electives
- **JJC Special Program:** Law Enforcement ◆ **OR** Fire Science & EMS ◆
- AP European History
- The African and Latin American Experience to 1865
- The African and Latin American Experience Since 1865

Additional Considerations
- World Language
- 3rd Year Science
- 4th Year Math

**** Some four-year universities may consider these courses in their entrance requirements.***

Human Services
Program of Study: Social Services

Graduation Requirements: 22 Credits Total

Grade 9

1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

Grade 10

1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

Grade 11

1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

Grade 12

1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key

■ Available for Get-Ahead Summer School
● Available as Dual Credit
◤ Can be taken multiple times
◆ Dual Enrollment Program

Suggested Elective Sequence

Computer Applications
Psychology / Sociology
AP Psychology
Child Development

Related Electives

Career Exploration / Career Preparation
AP European History
The African and Latin American Experience to 1865
The African and Latin American Experience Since 1865

Additional Considerations

World Language
3rd Year Science
4th Year Math
**** Some four-year universities may consider these courses in their entrance requirements.***

Academy of Science, Technology, Engineering & Mathematics (STEM)

The Academy of Science, Technology, Engineering and Mathematics is a small learning community where students receive a rigorous and relevant curriculum that prepares them for success in the pathways of Architecture, Construction & Manufacturing; Engineering; and Transportation, Distribution, & Logistics.

Architecture, Construction, & Manufacturing

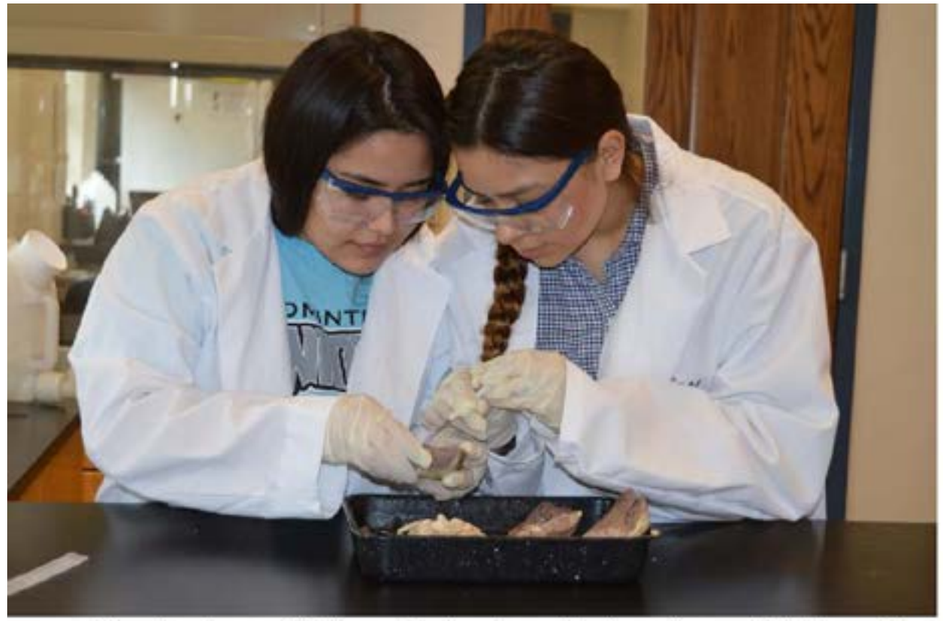
- Architect
- Welder, Carpenter, Bricklayer
- Pipefitter, Electrician
- Maintenance Operator
- Machinist
- Construction Project Manager

Engineering

- Chemical and Nuclear Engineer
- Civil Engineer
- Mechanical Engineer
- Physicist
- Biologist
- Chemist
- Ecologist

Transportation, Distribution, & Logistics

- Auto and Truck Mechanic
- Commercial Pilot, Air Traffic Controller
- Warehouse Manager, Logistics Specialist
- GPS and Electronics Technician
- Safety Analyst
- Public Works and Transportation Inspector



The Academy of Science, Technology, Engineering and Mathematics (STEM) provides students with a comprehensive educational experience. The following opportunities are unique to the STEM Academy. Opportunities may be campus-specific or subject to availability based on enrollment and other factors.

- Architecture classes provide real-world experience with design through partnerships with local architects
- Drafting, Welding and Math competitions
- Joliet Cyborgs Robotics Team and FIRST Robotics competition
- Science Club, Tiger Tech, Auto Club, Welding Club, Woods Club and Mu Alpha Theta Math Honor Society
- Mathemagic Spectacular and Pi Week Math Teacher Recognition school events and activities
- Academy-specific electives such as Tech CAD, Woods & Construction, Electricity, Auto Technology, 3D Computer Animation, Metals Technology, PLTW Introduction to Engineering Design, PLTW Principles of Engineering (POE), and PLTW Engineering Design and Development (EDD)
- Dual Credit and AP course offerings such as Biology, Precalculus and Trigonometry, Calculus AB, Statistics, Architectural Drafting, Engineering Graphics, and Vocational Auto Mechanics
- Job Shadowing experiences related to Career Academy
- Summer Internships related to Career Academy

*For a complete listing of academy-specific electives and Dual Credit/AP course offerings, visit the online Course Offerings Guide at www.jths.org.

Science, Technology, Engineering, & Math
Program of Study: Architecture, Construction, & Manufacturing

Graduation Requirements: 22 Credits Total

9 Grade

1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

10 Grade

1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

11 Grade

1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

12 Grade

1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key

- ■ Available for Get-Ahead Summer School
- ● Available as Dual Credit
- ◤ Can be taken multiple times
- ◆ Dual Enrollment Program

Suggested Elective Sequence

Architecture	Construction	Manufacturing
TechCAD ■ ●	TechCAD ■ ●	TechCAD ■ ●
Architectural Drafting ●	Woods & Construction 1	Metals Technology
Engineering Graphics ●	Woods & Construction 2	Electronics & Robotics 1
Advanced Drafting ●	Metals Technology	Electronics & Robotics 2
	Woods & Construction 3	Advanced Integrated
	Welding Technology	Maintenance (AIM) ◆

Related Electives

3D Computer Animation
PLTW Introduction to Engineering Design
PLTW Principles of Engineering
PLTW Engineering Design and Development
Refer to the other courses in this program of study if you have room

Additional Considerations

World Language
3rd Year Science
4th Year Math
**** Some four-year universities may consider these courses in their entrance requirements.***

Science, Technology, Engineering, & Math
Program of Study: Engineering

Graduation Requirements: 22 Credits Total

9 Grade

1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

10 Grade

1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

11 Grade

1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

12 Grade

1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key

- ■ Available for Get-Ahead Summer School
- ● Available as Dual Credit
- ◤ Can be taken multiple times
- ◆ Dual Enrollment Program

Suggested Elective Sequence

PLTW Introduction to Engineering Design
PLTW Principles of Engineering
PLTW Engineering Design and Development
3rd Year Science
4th Year Science
4th Year Math

Related Electives

TechCAD ■ ●
Class aligned to Engineering Specialty (i.e. Electronics, Automotive, etc.)

Additional Considerations

World Language

**** Some four-year universities may consider these courses in their entrance requirements.***

Science, Technology, Engineering, & Math
Program of Study: Transportation, Distribution, & Logistics

Graduation Requirements: 22 Credits Total

Grade 9

1. English 1
2. Biology
3. World Affairs
4. Algebra
5. PE/ROTC
6.
7.

Grade 10

1. English 2
2. Physics ■
3. Geometry ■
4. PE/ROTC/Health
5.
6.

Grade 11

1. English 3
2. Advanced Algebra ■
3. U.S. History
4. PE/ROTC
5.
6.

Grade 12

1. 4th Year English ●
2. Economics/Government ■
3. PE/ROTC
4.
5.
6.

Key

- ■ Available for Get-Ahead Summer School
- ● Available as Dual Credit
- ◤ Can be taken multiple times
- ◆ Dual Enrollment Program

Suggested Elective Sequence

- Auto Technology
- Computer Applications
- Electronics & Robotics 1
- Orientation to Business & Personal Finance ●
- Welding Technology

Related Electives

- Vocational Auto Mechanics 1 ●
- Vocational Auto Mechanics 2
- Advanced Integrated Maintenance (AIM) ◆
- Electronics & Robotics 2
- TechCAD ■ ●
- AP Computer Science Principles
- AP Computer Science A

Additional Considerations

- World Language
- 3rd Year Science
- 4th Year Math

**** Some four-year universities may consider these courses in their entrance requirements.***

DRIVER EDUCATION

GRADES 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will receive instruction in the safe operation of motor vehicles, rules of the road, and the laws of the State relating to motor vehicles. The course meets the legal requirements of the State in preparing students to become safe and efficient users of the highway transportation system.
Driver Education is taught in three phases:

1. Classroom Instruction (30) hours;
2. Simulation; and
3. Behind the Wheel Driving (6 hours).

Students who receive a grade of "B" or better in all phases of the course may be eligible to take the State of Illinois Driver's Licensing Test with their Driver Education instructor. Parents are responsible for a minimum of 50 hours of supervised driving (of which 10 hours must be night driving) with their son/daughter and to record this on a document to be turned in when the student obtains his/her license. To successfully complete the course, students must attend all course hours.

REMARKS: Driver Education is available at the junior and senior level during the regular school year. The older students will be assigned to first semester classes. However, students may be eligible to enroll in After School or Summer School Driver Education if age 15 years is attained and they have passed eight high school courses during the previous two semesters. Those who choose After School or Summer School Driver Education will be placed in Physical Education.

ATHLETIC PERFORMANCE

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: Recommendation by varsity coach or physical education administrator.

Students will focus on the functional training of the whole athlete in an environment that is conducive to fostering high expectations. Athletes will train specifically to enhance their individual athletic performance. The student will enhance the skill related fitness components include: efficiency of movement, speed, agility, muscular strength, muscular endurance, coordination, balance, flexibility, core strength and power. Additional topics may include: nutrition for the athlete and sport psychology.

REMARKS: By recommendation only.

CONDITIONING

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will improve and maintain personal fitness levels through aerobic conditioning and strength training. The philosophy of the class is lifetime fitness and will be achieved through various activities such as: kickboxing, plyometrics, and yoga.

HEALTH

GRADE 10
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will explore the fundamental elements of personal wellness, mental health, reproductive health, drug education, and nutrition. In partnership with English 1, there will be an emphasis on literacy by effectively reading, writing, listening, and speaking. Students will investigate healthy life styles through the utilization of a variety of mediums to assist learning and to produce writing and multimedia presentations for a variety of purposes and audiences.

REMARKS: Students will be enrolled in Health in lieu of one semester of Physical Education. This course is offered in a blended option.

KIN 200 INTRODUCTION TO PERSONAL TRAINING

GRADE 11, 12
1 SEMESTER **.5 JTHS CREDIT**
3 JJC HOURS

Prerequisites: KIN 207 First Aid.

Students will be exposed to the basics within the field of Personal Training, including health and fitness assessments, goal setting, and program design. The major components of fitness are covered and include cardiorespiratory capacity, muscular fitness, flexibility and body composition along with nutrition, healthy body weight, and the importance of each in preventing hypo-kinetic disease.

REMARKS: Students enrolled in this course have a dual credit option to receive college credit from Joliet Junior College.

KIN 207 FIRST AID

GRADE 11, 12
1 SEMESTER **.5 JTHS CREDIT**
2 JJC HOURS

Prerequisites: Three years of Physical Education (includes Driver Education and Health).

Students will study the prevention, recognition, and care of both acute and chronic injuries common to participants of physical activity/fitness and athletics. Specific topics to be addressed include prevention techniques, the classification and staging of injury conditions, basic evaluation techniques, as well as emergency management and follow-up care procedures.

REMARKS: Students enrolled in this course have a dual credit option to receive college credit from Joliet Junior College.

PEER TRAINERS (CENTRAL CAMPUS ONLY)

GRADES 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will work on a ratio of 1:1 with the A.V.A.C., Physically Handicapped, and/or Visually Impaired students as peer trainers. The peer trainer will identify the unique needs of his/her partner and interpret the physical adaptations necessary in providing assistance. The peer trainer will perform a variety of team, individual, recreational, team building, and fitness activities.

PHYSICAL EDUCATION 1

GRADE 9
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will identify and demonstrate the fundamental elements of team, individual, rhythmic, and team building activities. They will improve and/or maintain desirable health-related fitness through program participation and personal assessment.

REMARKS: Freshmen are required to take one semester of Physical Education and one semester of Health.

PHYSICAL EDUCATION 2

GRADE 10
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will participate and demonstrate proficiency in various individual and team activities. They will identify the characteristics of fitness, explain why those characteristics are important, and demonstrate techniques for increasing and maintaining fitness.

PHYSICAL EDUCATION 3, 4

GRADES 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will choose from a variety of activities based on their personal interests. Program emphasis offers opportunities in recreational and lifetime activities to solidify students appreciation and interest in relationship to physical wellness.

PE 3/4 Competitive Education: Students enrolled in this course will have the opportunity to participate in competitive, sports-focused activities that harness individual effort and ability to reach maximum physical and mental fitness potential. Students will choose from a variety of activities based on their personal interests. Individual and team activities will be used as a means to promote lifelong physical and mental health habits, enhance adaptability, build sportsmanship, and increase overall physical fitness.

PE 3/4 Recreational Education: Students enrolled in this course will have the opportunity to participate in a variety of activities that promote gamesmanship and overall physical fitness absent the pressures of more competitive sports. Students will choose from a variety of activities based on their personal interests. Individual and team activities will be used as a means to provide increased knowledge of the various opportunities and benefits of recreational activity and lifelong physical and mental fitness.

PE 3/4 Dance Education: Students enrolled in this course will learn basic dance skills, terminology, and principles of choreography. Students will be exposed to various forms of dance and the various elements of dancing as it relates to overall physical fitness. In addition to dance skills and the principles of dance, students will be exposed to various heritages and how dance expresses the beliefs and values of these cultures as well as promoting healthy living. Students will be exposed to traditional and non-traditional dance forms, enhancing endurance; muscular strength; movement; flexibility; and coordination, while having choice and a voice in exploring the relationship between dance and fitness.

PE 3/4 Adventure Education: Students enrolled in this course will have the opportunity to increase their knowledge and improve their physical skills through a variety of indoor and outdoor, daily fitness routines and unit activities aimed at improving overall physical fitness. This course will challenge participants to trust peers in unique settings using communication as a means to cooperate effectively through experiential learning, gaining life-long skills and information that will enhance overall physical fitness.

PHYSICAL EDUCATION LEADERSHIP TRAINING

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: Successful completion of P.E. 1 and approval of physical education teacher.

Students will demonstrate leadership qualities and an understanding of the methods and strategies necessary to assist in the classroom setting. Successful completion of the course may allow the student to become a P.E. Leader in subsequent semesters.

PHYSICAL EDUCATION LEADERSHIP (P.E. LEADER)

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: Physical Education Leadership Training class and recommendation by the P.E. Leadership instructor.

Students will be placed in a regular P.E. class as a P.E. Leader. Duties may include assisting teacher with equipment set up and take down, officiating, demonstrations, and other responsibilities deemed by the instructor.

REMARKS: P.E. Leaders will be evaluated each semester.

STRENGTH TRAINING

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will maintain and/or improve current strength levels. An emphasis is placed on techniques and use of free weights. They will devise, implement, and monitor a work-out plan based on their individual needs.

RESERVE OFFICER TRAINING CORPS (R.O.T.C.)

The purpose of Junior R.O.T.C. is to "motivate young people to be better citizens", and is therefore open to all students. Students may enroll in Junior R.O.T.C. in lieu of Physical Education, or may enroll in both Junior R.O.T.C. and Physical Education. Enrollment in Junior R.O.T.C. does not in any way obligate students to enlist in the Armed Services.

The Junior R.O.T.C. curriculum consists of seven units:
(1) Citizenship in action;
(2) Leadership theory and application;
(3) Foundations for Success;
(4) Wellness, fitness, and first aid;
(5) Geography, map reading, and environmental awareness;
(6) Citizenship in American history and government; and
(7) Civilian air rifle marksmanship and safety program. In addition, students create individual portfolios which are updated every semester of J.R.O.T.C.

Extracurricular activities include color guard, honor guard, drill team, air rifle team, and raider team. All military uniforms and course books are provided by the Junior R.O.T.C. department at no cost to the student.

Students who satisfactorily complete all four years of Junior R.O.T.C. will be provided a Military Training Certificate signed by the Senior Army Instructor. This certificate serves as a basis for advance class placement in the Senior R.O.T.C. program at the university/college level. If the student chooses to enlist in the U.S. Army, the certificate authorizes early promotion to the rank of Private First Class (E-3).

R.O.T.C. 1

GRADE 9
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will develop leadership skills by examining the following:
(1) Foundations of Army J.R.O.T.C. organization; (2) Military custom and courtesies;
(3) Leadership techniques and skills; (4) Knowing yourself; (5) Study and communication skills; (6) Conflict resolution; (7) Financial planning; (8) Cadet challenge; (9) Drill and ceremony; (10) Air rifle marksmanship and safety; and (11) Community service projects.

R.O.T.C. 2

GRADE 10
2 SEMESTERS **1 CREDIT**

Prerequisites: R.O.T.C. 1.

Students will develop leadership skills by examining the following:
(1) Healthy lifestyle and drug awareness; (2) First aid skills (3) Map skills;
(4) Citizenship in American history and government; (5) Cadet challenge; (6) Drill and ceremony; (7) Air rifle marksmanship and safety; and (8) Community service projects.

R.O.T.C. 3, 4

GRADES 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: R.O.T.C. 1 & 2.

Students will hone their leadership skills by practicing the following:
(1) Leadership strategies; (2) Presentation skills; (3) Managing conflicts;
(4) Career planning; (5) Critical thinking and decision making skills; (6) Financial planning;
(7) Cadet challenge; (8) Drill and ceremony; (9) Air rifle marksmanship and safety; and (10) Community service projects.

ACCOUNTING 1

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will develop the fundamental skills required for business records management. Instruction includes organizing, summarizing, and analyzing financial records, budget preparation, and financial reporting. Students are introduced to computerized accounting, and accounting careers are explored. This course provides a foundation on which to continue studying business and accounting at the college level.

ANIMATION AND VIDEO EDITING

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Computer Applications 1 and 2 are highly recommended.

*First Semester - Animation: Students will use Adobe Flash software to develop interactive, animated graphics for games, websites, movies and desktop presentations. They will enhance their animations by drawing or importing graphics and incorporating sounds and text.

*Second Semester - Video Editing: Students will use Adobe Premiere Pro software to create commercials, documentaries, training videos, and short movies. Through the use of digital still cameras and digital video cameras, this process will include scripting, storyboarding, video and audio editing, lighting, and other special effects.

REMARKS: Semester 1 is not a prerequisite for Semester 2.

COMPUTER APPLICATIONS 1 & 2

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will learn computer skills in preparation for life and careers. Students will use Microsoft Office, the Internet, and various computer peripherals (scanners, and digital/video cameras) to complete an assortment of projects based on real-world situations. During this class, students will develop skills needed in today's high-tech world, and will be prepared for the PowerPoint, Excel, and Access MOS certification exams.

EXPLORING ENTREPRENEURSHIP

GRADES 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will be introduced to entrepreneurship, identifying characteristics of the entrepreneur, and evaluating business and product opportunities. They will also engage in customer discovery, design thinking, feasibility, financing, and planning for success. This course is ideal for students who have an interest in owning and/or operating their own business and will provide students with a framework to apply their interests to the world of business.

GRAPHIC DESIGN

GRADES 9, 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: Computer Applications 1 & 2 are highly recommended.

Students will use Adobe Illustrator, InDesign, and Photoshop software to draw, paint, and lay out pages while creating enhanced, eye catching, professional designs and documents. They will manipulate photographs while using color printers, scanners, and digital cameras.

MARKETING

GRADES 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students who want to own their own business or want a career in marketing or any business field should take this course. Emphasis is placed on the following principles: product planning and design, promotion, pricing strategies, advertising, market research and sales, sponsorships, branding, licensing and naming rights, publicity, and human relations. Students will acquire the skills necessary to create promotional and advertising campaigns for a variety of products and events.

ORIENTATION TO BUSINESS AND PERSONAL FINANCE

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will receive an orientation to the field of business with emphasis on business principles, communications, computations and how business interacts with society. Students will also be introduced to technology in business-related occupations and personal business and financial management. Students will be prepared to make wise decisions as consumers, wage earners, and citizens within our economy. Students will "play" the stock market as well as create and market their own product.

REMARKS: This course meets the state requirement for Consumer Education. Students enrolled in this course may have a dual credit option to receive college credit from Joliet Junior College.

WEB DESIGN

GRADES 9, 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: Computer Applications 1 & 2 are recommended.

Students will use Dreamweaver and other advanced software to design, create, and maintain an interactive website. Students will learn how to apply basic design concepts, write HTML code, and create cascading style sheets (CSS). Audio and video clips, hyperlinks, buttons, banners and hit counters will be created. Various digital media will be used and career opportunities also will be explored.

AP COMPUTER SCIENCE A

GRADES 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: AP Computer Science Principles.

Students will design and implement solutions to problems by writing, running and debugging computer programs. They will use and implement commonly used algorithms and data structures. Students will code fluently in an object-oriented paradigm using the programming language Java. They will read and understand a large program consisting of several classes and interacting objects. Students will recognize the ethical and social implications of computer usage. This course will prepare students to be college and career ready in the Information Technology career pathway.

REMARKS: The purpose of this course is to prepare students for the A.P. Computer Science A test; students are expected to sit for the test in May.

AP COMPUTER SCIENCE PRINCIPLES

GRADES 9, 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will learn various programming languages and create digital artifacts with practical, personal and social intent. This course is recommended for all students interested in a career within the Information Technology pathway. Students will use computing to explore and discover the connections within information; practice using mathematical and logical programming concepts; and explore the building blocks behind the Internet while learning how the Internet functions. Students will have the opportunity to investigate the links between Information Technology and other career pathways such as medicine, engineering, business, human services, and the arts.

REMARKS: The purpose of this course is to prepare students for the AP Computer Science Principles test; students are expected to sit for the test in May.

ENGLISH 1

GRADE 9
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will survey a selection of fiction and nonfiction genres throughout the year. Students will develop literacy skills by effectively reading, writing, listening, and speaking. Emphasis is placed on analytical reading, summarizing, text dependent analysis, research, taking an argumentative stance, and design. Students will utilize technology to assist learning and to produce writing and multimedia presentations for a variety of purposes and audiences.

ENGLISH 1 HONORS

GRADE 9 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Must meet district honors criteria.

Students will survey a selection of fiction and nonfiction genres throughout the year. Students will develop literacy skills by effectively reading, writing, listening, and speaking. Emphasis is placed on analytical reading, summarizing, text dependent analysis, research, taking an argumentative stance, and design. Students will utilize technology to assist learning and to produce writing and multimedia presentations for a variety of purposes and audiences. At the Honors level, the content is of greater complexity and addressed at an accelerated pace.

ENGLISH 2

GRADE 10
2 SEMESTERS **1 CREDIT**

Prerequisites: English 1.

Students will read and analyze a selection of fiction and nonfiction from around the world. Students will continue to develop the skills established in grade 9 with increased rigor. There will continue to be an emphasis on literacy by effectively reading, writing, listening, and speaking. Analytical reading, summarizing, text dependent analysis, research, taking an argumentative stance, and design will be reinforced through students' utilization of a variety of mediums to assist learning and to produce writing and multimedia presentations for a variety of purpose and audiences.

REMARKS: This course is offered in a blended option.

ENGLISH 2 HONORS

GRADE 10 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: English 1 and must meet district honors criteria.

Students will read and analyze a selection of fiction and nonfiction from around the world. Students will continue to develop the skills established in grade 9 with increased rigor. There will continue to be an emphasis on literacy by effectively reading, writing, listening, and speaking. Analytical reading, summarizing, text dependent analysis, research, taking an argumentative stance, and design will be reinforced through students' utilization of a variety of mediums to assist learning and to produce writing and multimedia presentations for a variety of purposes and audiences. At the Honors level, the content is of greater complexity and addressed at an accelerated pace.

REMARKS: This course is offered in a blended option.

ENGLISH 3

GRADE 11
2 SEMESTERS **1 CREDIT**

Prerequisites: English 2.

Students will be devoted to the study of American literature that spans from the 1800s through present day. Students will continue to build on writing skills from previous instruction, develop and refine analytical reading skills, and enhance necessary communication skills. Throughout this course, students will have a unique opportunity to explore the parallels between American literature and U.S. History.

REMARKS: This course is offered in a blended option.

AP ENGLISH 3 LANGUAGE AND COMPOSITION

GRADE 11 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: English 2 and must meet district honors criteria.

Students will become skilled readers of prose written in a variety of rhetorical contexts and skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. Therefore, this composition course emphasizes the expository, analytical, and argumentative writing that forms the basis of academic and professional communication, as well as the personal and reflective writing that fosters the development of writing facility in any context. The purpose of this course is to prepare students for the A.P. Language and Composition test; students are expected to sit for the test in May.

REMARKS: This course is offered in a blended option.

ENGLISH 4

GRADE 12
2 SEMESTERS **1 CREDIT**

Prerequisites: English 3.

Students will continue their development of reading, research, and analytical skills through their understanding of how social and cultural constructs influence their identities and roles both locally and globally. Students will use technology in completing multiple research projects including a research paper. An emphasis will be given to self-reflection and producing effective arguments throughout this course.

REMARKS: This course is offered in a blended option.

AP ENGLISH 4 LITERATURE AND COMPOSITION

GRADE 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: English 3 and must meet district honors criteria.

Students will learn to recognize major movement trends and styles in British, American, and World literature through the study of representative works and from various genres and significant writers. The emphasis in composition is upon analytical and persuasive writing. Students are expected to produce analytical papers through close reading considering structure, style, theme, and literary and rhetorical devices. The purpose of this course is to prepare students for the A.P. Literature and Composition test; students are expected to sit for the test in May.

REMARKS: This course is offered in a blended option.

RHETORIC 101

GRADE 12 **WEIGHTED**
1 SEMESTER **.5 JTHS CREDIT**
3 JJC HOURS

Prerequisites: English 3 and meet Joliet Junior College placement criteria.

Students will acquire writing skills necessary for success in college. It is required for students intending to continue in a baccalaureate program. Special emphasis is placed upon summary writing, exposition, and argumentation.

REMARKS: This course is offered in a blended option. Students enrolled in this course have a dual credit option to receive college credit from Joliet Junior College.

RHETORIC 102

GRADE 12 **WEIGHTED**
1 SEMESTER **.5 JTHS CREDIT**
3 JJC HOURS

Prerequisites: English 3 and appropriate ACCUPLACER, ACT, or SAT placement scores. Students must receive a grade of "C" or better in Rhetoric 101 in order to enroll in Rhetoric 102 for college credit.

Students will continue their training and practice in composition. Students will develop their writing competencies as they study a variety of literary genres. A 2500+ word research paper is required.

REMARKS: This course is offered in a blended option. Students enrolled in this course have a dual credit option to receive college credit from Joliet Junior College.

MULTIMEDIA JOURNALISM & WRITING

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Successful completion of English 1 and/or strong writing skills.

Students will be introduced to the world of multimedia, learn various forms of journalistic writing across the media, print, Web, and broadcast, as well as basic web and hard copy production and editing.

REMARKS: This course is not a substitute for any of the English 1-4 courses required for graduation.

ADVANCED MULTIMEDIA JOURNALISM & PRODUCTION

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Successful completion of Intermediate Multimedia Journalism & Writing (this course can be taken year after year for additional credit).

Students will apply their writing and basic production skills in all forms of media. Students will assume an editor/staff position in which they prove they have skills valuable to the publications/programs produced in this course - Web, newspaper, yearbook. This course will teach more advanced journalism production skills, including publications design, marketing and sales, reporting and ethics.

REMARKS: This course is not a substitute for any of the English 1-4 courses required for graduation.

E.S.L. 1

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Primarily a course for newcomer students or those students with ACCESS scores in the 'Entering' stage.

Students will develop listening and oral language skills in English, demonstrate basic English oral and written communications skills, construct simple sentences and paragraphs, use basic grammar rules, read and interpret a variety of texts, and develop English vocabulary.

REMARKS: Students may also be enrolled for an additional class period in a special reading laboratory.

E.S.L. 2

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Assessment and/or teacher/counselor recommendation.

Students will develop listening and oral language skills in English, create simple sentences and paragraphs, apply basic grammar rules, read and interpret a variety of texts, and develop English vocabulary skills.

REMARKS: Students may also be enrolled for an additional class period in a special reading laboratory.

E.S.L. 3

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Assessment and/or teacher/counselor recommendation.

Students will continue to develop listening and oral language skills, and demonstrate oral and written communication skills in English. Students will construct sentences, paragraphs, and multi-paragraph compositions that demonstrate the correct application of standard grammar rules. Students will read and interpret a variety of texts and literary genres, and develop English vocabulary comprehension skills. Students will research information to present projects documented in the M.L.A. style.

REMARKS: Students may also be enrolled for an additional class period in a special reading laboratory.

E.S.L. 4

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Assessment and/or teacher/counselor recommendation.

Students will continue to develop listening and oral language skills, and demonstrate oral and written communication skills in English in formal and informal speaking situations. Students will construct sentences, paragraphs, and multi-paragraph compositions and speeches, and demonstrate the correct application of grammar rules. Students will read and interpret a variety of texts and literary genres, research information to write and present speeches documented in the M.L.A. style, and develop English vocabulary and vocabulary comprehension skills.

REMARKS: Students may also be enrolled for an additional class period in a special reading laboratory.

EL READING AND WRITING

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Assessment and/or teacher/counselor recommendation.

Students will use phonics, decoding and work attack skills to understand vocabulary. Students will use context clues and determine literal meanings in text. Students will define and use new vocabulary, read and follow directions, follow oral directions, and develop oral communication skills in English.

E.S.L. ENGLISH LAB 2

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Assessment and/or teacher/counselor recommendation.

Students will use phonics, decoding and work attack skills to understand vocabulary. Students will use dictionary skills and will define and use new vocabulary. Students will use context clues and determine literal and inferential meanings in text. Students will use research, library, and study skills, read and follow written directions, follow oral directions, and continue to develop oral communication skills in English.

E.S.L. ENGLISH LAB 3

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Assessment and/or teacher/counselor recommendation.

Students will use phonics, decoding and work attack skills to understand vocabulary. Students will use study skills and use dictionary skills to define new vocabulary. Students will determine literal and inferential meanings in text, read and follow multi-step written and oral directions, and continue to develop oral communication skills in English.

E.S.L. ENGLISH LAB 4

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Assessment and/or teacher/counselor recommendation.

Students will use phonics, decoding and work attack skills to understand vocabulary. Students will use dictionary skills and will define and use new vocabulary. Students will use context clues and determine literal and inferential meanings in text.

Students will use research, library, and study skills, read and follow written directions, follow oral directions, and continue to develop oral communication skills in English.

APPAREL MERCHANDISING AND DESIGN

GRADES 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Fashion Construction 1 and 2.

Students will have an opportunity to explore fashion from its infancy to well beyond our current decade through the examination of the fashion industry and specific designers. Advanced sewing skills will be acquired and practiced through project and samples. Students will also explore the field of apparel merchandising through business planning, store design and layout, production, cost analysis, and marketing. Additional focus areas include: entrepreneurship, textiles, care and cleaning of fabrics, and use of technology in design. Related career fields include: fashion designer, fashion historian, costumer, stylist, personal shopper, buyer, entrepreneur, textile designer, customer service representative, textile chemist, visual merchandiser, and interior design.

CAREER EXPLORATION

GRADES 9, 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will gain an understanding of the many career opportunities within the five JTHS Career Academies. Students will explore and research careers within fourteen pathways and participate in hands-on learning activities. Research will include educational requirements, post-secondary options, and aspects of specific career environments. Individual Career Planning is a component of the course to better prepare students for their future.

CAREER PREPARATION

GRADES 9, 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will explore a career pathway of their choice by developing an individual career plan. Course topics will provide students an opportunity to further their understanding of their career choice. Career readiness activities such as building communication skills, resume writing, and interviewing will be an integral part of the course.

CHILD DEVELOPMENT

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will examine the physical, social, emotional, and intellectual development of children and apply their learning in a classroom and lab setting. Students will create, develop and implement lessons, manage daily classroom routines, and apply technology skills that are utilized in the educational environment. These skills are developed and applied through the teaching and observation phase of the lab component of the program.

REMARKS: An articulation agreement is in place for this course at Joliet Junior College.

CONSUMER ECONOMICS

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will gain knowledge to become better consumers in our society. Course topics include: financial literacy, installment purchasing, managing consumer credit, budgeting, savings, investing, banking, understanding contracts, taxations, insurance, comparative shopping, consumer protection and assistance, and energy conservation. Additionally, students will learn the role of a consumer as a citizen and wage earner, interacting with agriculture, business, labor unions, and government. This course would also be helpful to those students interested in career areas such as resource manager, conservationist, customer relations, financial planner, and consumer advocate.

REMARKS: This course meets the state requirement for Consumer Education. This course is offered in a blended option. Students enrolled in this course may have a dual credit option to receive college credit from Joliet Junior College.

COSMETOLOGY

GRADE 12
2 SEMESTERS **3 CREDITS**

Prerequisites: Acceptance into cosmetology school.

Students will participate in a cooperative program between the District and the Illinois Institute of Cosmetology. Students will attend high school for a half day and attend the cosmetology school of their choice that has been approved by the District for the remainder of the day. Students should apply and be accepted at the cosmetology school before registering for the remainder of their classes for the year of attendance. To receive high school credit for participation in this program, students will need to complete the required number of hours necessary for each semester of attendance. They will also need to complete the total number of hours required to qualify for the State licensing examination for cosmetology.

REMARKS: Students are responsible for tuition costs. Students must provide their own transportation to the cosmetology school. Students begin the program in July prior to their senior year.

CULINARY ARTS I

GRADE 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Food Fundamentals I.

Students will study a comprehensive curriculum of culinary and management topics using an industry focused approach. Using pedagogy that supports 21st century learning along with supplements in technology, students will perform lab based experiences to enhance their learning. This is a Pro Start course certified by the Illinois Restaurant Association Educational Foundation. Students who successfully complete this course, take the National ProStart Examination test - Level 1, and begin to complete 400 hours of supervised food service employment are eligible for Culinary Arts II and have the opportunity to earn the Pro Start National Certificate of Achievement.

CULINARY ARTS II

GRADE 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Culinary Arts I.

Students will study a comprehensive curriculum of culinary and management topics using an industry focused approach. Using pedagogy that supports 21st century learning along with supplements in technology, students will perform lab based experiences to enhance their learning. This is a Pro Start course certified by the Illinois Restaurant Association Educational Foundation. Students who complete this course, pass the National ProStart Examination tests, and complete 400 hours of supervised food service employment have the opportunity to earn the Pro Start National Certificate of Achievement.

EARLY CHILDHOOD EDUCATION

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Child Development or with teacher approval.

Students will gain the competencies needed for successful employment in a variety of child care situations at day care centers in the local community. These competencies include verbal and written communications and curriculum development for the children in areas of art, math, music, science, and all areas of , nutrition and safety. Philosophies, organizational patterns, and facilities of a variety of early childhood educational settings will be examined. After successful completion of this course, students will receive Level 1 early childhood education certification. For more information on industry certifications in Occupational Child Care, visit www.inccra.org or www.ilgateways.com

REMARKS: An articulation agreement is in place for this course at Joliet Junior College. This course is offered in a blended option.

EXPLORING THE TEACHING PROFESSION

GRADE 11, 12
2 SEMESTERS

WEIGHTED
1 CREDIT

Prerequisites: Counselor recommendation.

Student will explore the teaching profession as a viable career option. Topics include teacher attributes and dispositions of successful teachers and the structure and purpose of schools.

REMARKS: Students enrolled in this course have a dual credit option to receive college credit from University of St. Francis.

FASHION CONSTRUCTION 1

GRADES 10, 11, 12
1 SEMESTER

.5 CREDIT

Prerequisites: None.

Students will have an opportunity to explore their personal style and the many influences that impact the clothing they wear. Students will learn basic sewing equipment use and techniques (hand sewing, machine sewing, basic machine embroidery). These skills will be acquired and practiced through hands-on projects such as pajama pants, “green” shopping bags, and other sewing projects and samples. Basic clothing care and pattern use are also explored. Related career fields include: fashion designer, merchandiser, personal shopper, buyer, stylist, and sales associate.

FASHION CONSTRUCTION 2

GRADES 10, 11, 12
1 SEMESTER

.5 CREDIT

Prerequisites: Fashion Construction 1.

Students will have an opportunity to explore the elements and principles of design through multiple hands-on projects, including the design of an original fashion line. Students will learn intermediate construction skills which will be applied in multiple sewing projects. They will be able to fully participate in pattern selection and construction. Related career fields include: fashion designer, tailor, and color consultant.

FOOD FUNDAMENTALS

GRADES 9, 10, 11, 12
2 SEMESTERS

1 CREDIT

Prerequisites: None.

Students will study safety; sanitation; identification and use of equipment; and the preparation methods and standards of food production. Laboratory experiences supplement the class work with experiences in learning proper use of tools and equipment. This course will emphasize the principles of meal planning, preparation, and service. Nutrition and special diets will be included. Career opportunities in the food service industry will be explored. Students will prepare for and take the exam for the industry standard food sanitation certificate.

REMARKS: This course is offered in a blended option.

INTERIOR DESIGN

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will explore the field of Interior Design through architectural styles, furnishings, interior and exterior building applications, landscape, and living environments. Through classroom and lab experiences, students will design residential and commercial communities. Students will develop skills using applications of elements and principles of design to create aesthetically pleasing living spaces. Students will complete scale drawings and floor plans. Emphasis will be placed on the use of textiles, color, line, and design materials and criteria for selecting and coordinating furnishings. This Course prepares students for careers such as interior designer, production designer, landscape designer, and floral designer.

INTRODUCTION TO ART

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will apply elements and principles of design, organize visual content, and develop skills in the use of tools and materials to produce two-dimensional (drawing, painting, print-making) and three-dimensional (sculpture, ceramics) works of art.

INTERMEDIATE ART

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Introduction to Art or teacher approval.

Students will advance in their ability to apply the elements and principles of design, organize visual content and develop skills in the use of tools and materials to produce two-dimensional (drawing, painting, printmaking) and three-dimensional (sculpture, ceramics) works of art. Students will begin to focus on preferences for future study in two- and three-dimensional areas.

TWO-DIMENSIONAL ART 1

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Intermediate Art or teacher approval.

Students will utilize their knowledge of art to identify problems and explore original solutions to produce finished works of art (drawing, painting, printmaking). Students will employ creativity, higher level thinking skills, and insightful responses to visual stimuli.

THREE-DIMENSIONAL ART 1

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Introduction to Art or teacher approval.

Students will utilize their knowledge of art to identify problems and explore original solutions to produce finished works of art (sculpture, ceramics) in three-dimensional media. Project planning, design, safe and proper use of equipment and materials will be emphasized in this class.

AP STUDIO ART (DESIGNATION ART)

GRADES 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Two-Dimensional Art 1 or Three Dimensional Art 1.

AP Studio Art is designed for students who are seriously interested in the practical experience of art. Students submit individual portfolios for evaluation at the end of the school year. The AP Studio Art Program consists of three portfolios for students to choose from; which includes Two-dimensional Design, Three-dimensional Design, and Drawing, This College Board program provides a national standard for performance in the visual arts that allows students to earn college credit and/or advanced placement while still in high school.

DRAMA 1

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will study acting, dramatic production, and the history of drama. Students will read plays, act, direct and produce. Students will receive training in voice techniques, bodily action, and dramatic techniques.

REMARKS: This course is not a substitute for any of the English 1-4 courses required for graduation.

DRAMA 2

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Drama 1.

Students will use knowledge and skills acquired from previous experience to refine their techniques through class projects and play production.

REMARKS: This course is not a substitute for any of the English 1-4 courses required for graduation.

THEATRICAL STUDIES

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Drama 1 or instructor approval.

Students will explore areas of drama such as make-up design and application, movement, voice and diction, set design, and projection/light design. This course will provide students a well-rounded experience in both technical and performance arts as related to the Arts and Communication Academy career pathways.

INTRODUCTION TO BAND

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Band director approval/recommendation; approval by director ensures that the group is properly balanced with instrumentation and that instrument resources are available. Musical experience is not required for participation in this group.

This class offers the band experience at the beginning level. The instruments taught are flute, clarinet, saxophone, trumpet, trombone, tuba and percussion. No experience is necessary – only the will and desire to play an instrument. Musical topics are introduced such as reading, music notation, analyzing and evaluating music, as well as composing and improvising simple melodies. Students will apply their musical knowledge and skills to traditional, classical, contemporary and popular band literature through performance. The course includes concerts, parades, clinics, field trips and pep band. Introduction to Band students would have the opportunity to participate in marching band halftime shows.

CONCERT BAND

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Middle School band experience.

Students will apply their musical knowledge and skills to traditional, classical, contemporary and popular band literature through performance. The course includes concerts, contests, clinics, field trips, parades, and home football games.

SYMPHONIC WINDS

GRADE 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Audition and Middle School Band Director's recommendation.

Students will apply intermediate and advanced musical knowledge and skills to advanced high school, college, and professional band literature through performance. The course includes concerts, clinics, field trips, parades, and home football games.

SYMPHONIC BAND

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Audition and Middle School Band Director's recommendation.

Students will apply advanced musical knowledge and skills to advanced high school, college and professional band literature through performance. The course includes concerts, clinics, field trips, parades, and home football games.

JAZZ ENSEMBLE

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Experience on a jazz instrument and an audition.

Students will apply advanced musical skills and knowledge to develop improvisational abilities in order to perform sophisticated jazz literature including swing, bebop, Latin, funk, rock, and contemporary styles. The Jazz Ensemble performs at school functions, community functions, jazz festivals, contests, clinics, concerts, and field trips.

STRING ORCHESTRA

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Middle School Orchestra Experience or Director's recommendation.

Students will apply their musical knowledge and skills to traditional, classical, contemporary, and popular string literature through performance. The course includes performances at Open House, concerts at both West and Central campuses, contests, and field trips. The opportunity also exists to audition for the Symphony Orchestra which meets as a co-curricular ensemble one evening a week.

CHAMBER ORCHESTRA

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Audition.

Students will apply advanced musical knowledge and skills to advanced classical, contemporary, and popular string literature through performance. The course includes mandatory concerts at both West and Central Campuses, along with other various contests, field trips, and bi-annual tours. The opportunity also exits to audition for the Symphony Orchestra which meets as a co-curricular ensemble one evening per week.

MIXED CHORUS

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will experience singing in a large choral group setting with a focus on mixed rather than single gender literature. Throughout this course, students will benefit from proper vocal training in a variety of musical styles including classical, gospel, jazz, pop, and ethnic music. Students will also be a part of at least two concerts per year, as well as field trips, and/or contests, and clinics.

ENSEMBLE

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students within this non-audition ensemble with a focus on single gender literature will demonstrate basic proper vocal production and knowledge of various genres including classical, gospel, jazz, pop, and Broadway musicals. Students will perform in at least two concerts a year and participate in field trips. Students will also participate in contests and/or clinics.

CONCERT CHOIR

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Audition.

Students who have a musical background and are looking for a challenging choral experience will progress further in the study of advanced vocal production in this audition-only group. Throughout this course, students will perform more sophisticated repertoire ranging from Baroque up through the 21st Century, including non-classical music, as well as Broadway, and Jazz. Students will also experience clinics, concerts, and/or guest artists as part of the class.

MUSIC APPRECIATION I

GRADE 9, 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will examine, listen to, and evaluate music from the classical music traditions of the past, as well as of today's society. The content of the specific musical style will be described and explained based on the standards of the genre. In addition to analysis, this class will use music as a tool for connection and application of other studies.

MUSIC APPRECIATION II

GRADE 9, 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will examine, listen to, and evaluate music from the jazz and popular music traditions of the past, as well as of today's society. The content of the specific musical style will be described and explained based on the standards of the genre. In addition to analysis, this class will use music as a tool for connection and application of other studies.

AP MUSIC THEORY

GRADES 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1.0 CREDIT**

Prerequisites: Music teacher's recommendation.

Students will apply their musical knowledge in advanced note reading and music theory. Their knowledge will be assessed through analysis and writing skills in a variety of styles. The purpose of this course is to prepare students for the A.P, Music Theory test; students are expected to sit for the test in May.

HEALTH SCIENCE

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will explore careers in the health, medicine, and veterinary fields in this extensive course in the Health Occupations sequence. Students develop skills and knowledge in anatomy and physiology, first aid, and Basic Life Support (BLS) for health care providers. Students will also research the educational requirements and pathways for a variety of health related careers.

REMARKS: This course is offered in a blended option.

HEALTH INFORMATION TECHNOLOGY

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: Health Science or PLTW Principles of Biomedical Science.

Students will gain experience with health information management concepts and the connections with the provision of health care. Topics such as the electronic medical record, administrative and clinical applications, and health information management careers will be examined. Students will engage in a medical office simulation with specialized software.

MEDICAL LAW AND ETHICS

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will identify personal beliefs, values, and morals related to providing health services. The course will focus on discussions of ethical and legal dilemmas and theories as they relate to healthcare practice. Students will gain an understanding of basic principles of ethics, medical law, and decision making processes through case review.

PLTW PRINCIPLES OF BIOMEDICAL SCIENCE

GRADES 9, 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Concurrent enrollment in Algebra 1 without support.

Students will explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

PLTW HUMAN BODY SYSTEMS

GRADES 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Completion of Principles of Biomedical Science and Biology.

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Manikin, use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

PLTW MEDICAL INTERVENTIONS

GRADES 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: PLTW Human Body Systems.

Students will investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. The course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose, and treat cancer, and how to prevail when the organs of the body begin to fail.

Students will practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

PLTW BIOMEDICAL INNOVATION

GRADE 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: PTLW Medical Interventions.

Students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences in this capstone class. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community.

ALGEBRA 1

GRADES 9
2 SEMESTERS **1 CREDIT**

Prerequisites: Freshmen are placed based on PSAT scores.

Students will focus on and apply the 5 conceptual categories of the common core mathematics standards: numbers and quantity, algebra, functions, geometry and statistics and probability with and without the use of technology. Students will recognize, develop patterns, and problem solve using tables, graphs, and equations including investigation of linear, quadratic and exponential relationships. Students will explore basic Euclidean geometry and investigate statistical analysis.

REMARKS: Texas Instrument Graphing Calculator (TI-84 plus or TI-NSpire) is strongly recommended.

ALGEBRA 1 HONORS

GRADE 9 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Students must meet district honors criteria.

Students will focus on and apply the 5 conceptual categories of the common core mathematics standards: numbers and quantity, algebra, functions, geometry and statistics and probability with and without the use of technology. Students will recognize, develop patterns, and problem solve using tables, graphs, and equations including investigation of linear, quadratic and exponential relationships. Students will explore basic Euclidean geometry and investigate statistical analysis. Students in this course will exercise an intuitive ability to think mathematically and demonstrate strong prerequisite skills throughout the course.

REMARKS: Texas Instrument Graphing Calculator (TI-84 plus or TI-NSpire) is strongly recommended.

GEOMETRY

GRADES 9, 10
2 SEMESTERS **1 CREDIT**

Prerequisites: Algebra 1.

Students will focus on and apply the 5 conceptual categories of the common core. The course will have an emphasis on representing, modeling and transforming quadratic functions. In addition, the following topics will be introduced: right triangles and trigonometry, circles, and various relationships between geometric figures. Students' ability to understand statistics and probability will be extended beyond the Algebra 1 course.

REMARKS: Texas Instrument Graphing Calculator (TI-84 plus or TI-NSpire) is strongly recommended.

GEOMETRY HONORS

GRADES 9, 10 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Algebra Honors 1

Students will focus on and apply the 5 conceptual categories of the common core. The course will have an emphasis on representing, modeling and transforming quadratic functions. The following topics will be introduced: right triangles and trigonometry, circles, and various relationships between geometric figures. Students' ability to understand statistics and probability will be extended beyond the Algebra 1 Honors course. Students in this course will exercise an intuitive ability to think mathematically and demonstrate prerequisite skills throughout this course.

REMARKS: Texas Instrument Graphing Calculator (TI-84 plus or TI-NSpire) is strongly recommended.

ADVANCED ALGEBRA

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Algebra 1 and Geometry.

Students will focus on and apply the 5 conceptual categories of the common core. The course will have an emphasis on geometric proofs and representing and modeling trigonometry. In addition, the following topics will be introduced: representing and modeling polynomial and rational numbers, logarithms and exponents. Students' ability to understand statistics and probability will be extended beyond the Geometry course.

REMARKS: This course is offered in a blended option. Texas Instrument Graphing Calculator (TI-84 plus or TI-NSpire) is strongly recommended.

ADVANCED ALGEBRA HONORS

GRADES 10, 11 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Algebra 1 Honors and Geometry Honors.

Students will focus on and apply the 5 conceptual categories of the common core. The course will have an emphasis on geometric proofs and representing and modeling trigonometry. In addition, the following topics will be introduced: representing and modeling polynomial and rational numbers, logarithms and exponents. Students' ability to understand statistics and probability will be extended beyond the Geometry Honors course. Students in this course will exercise an intuitive ability to think mathematically and demonstrate prerequisite skills throughout this course.

REMARKS: This course is offered in a blended option. Texas Instrument Graphing Calculator (TI-84 plus or TI-NSpire) is strongly recommended.

PRE-CALCULUS

GRADES 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Successful completion of Algebra 1, Geometry and Advanced Algebra.

Students will focus on and apply the 5 conceptual categories of the common core. The course will have an emphasis on graphing and analyzing polynomial, step, logarithmic, exponential, rational, and trigonometric functions using transformations of graphs with and without the use of technology. Students will apply trigonometric laws to solve right and oblique triangles, apply fundamental trigonometric functions and graph conic sections. Students' ability to understand statistics and probability will be extended beyond the Advanced Algebra course.

REMARKS: Texas Instrument Graphing Calculator (TI-84 plus or TI-NSpire) is strongly recommended.

PRE-CALCULUS AND TRIGONOMETRY HONORS

GRADES 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**
5 JJC HOURS

Prerequisites: Advanced Algebra Honors; Meet Geometry prerequisite ALEKS placement test score for dual credit in Math 142 at JJC.

Students will graph and analyze polynomial, step, logarithmic, exponential, rational, and trigonometric functions using transformation of graphs with and without the use of technology. They will apply trigonometric laws to solve right and oblique triangles. They will apply fundamental trigonometric identities to verify more complex identities. They will identify graphs of trigonometric functions, determine the components of trigonometric functions, and graph conic sections. They will investigate polar and parametric graphs and conversions. They will perform vector computations and use vectors in application problems.

REMARKS: Texas Instrument Graphing Calculator (TI-84 plus or TI-NSpire) is strongly recommended. Students enrolled in this course may have a dual credit option to receive college credit from Joliet Junior College for Math 142.

PROBABILITY & STATISTICS

GRADES 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Successful completion of Algebra 1 & Geometry and concurrent enrollment in Advanced Algebra.

Students will focus on and apply mathematical reasoning and solving real life problems as they relate to probability and statistics. Topics include fundamental counting principle, combinations and permutations, conditional probability, gaming, insurance, modeling and determining hypotheses. Both a graphing calculator and Microsoft Excel will be used.

REMARKS: Texas Instruments Graphing Calculator (TI-84 plus or TI-NSpire) is strongly recommended. This course is offered in a blended option.

TRANSITION TO COLLEGE MATH

GRADES 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Successful completion of Algebra 1, Geometry and Advanced Algebra.

This course expands on the concepts in elementary algebra and it is a prerequisite for Joliet Junior College's college algebra. Topics studied include: factoring, rational expressions, radicals, quadratics, logs and exponential functions.

AP CALCULUS AB

GRADES 11, 12
2 SEMESTERS

WEIGHTED
1 CREDIT
5 JJC HOURS

Prerequisites: Pre-Calculus or Pre-Calculus and Trigonometry Honors; Satisfactory ALEKS placement test score for dual credit in Math 170 at JJC.

Students will use functions represented in a variety of ways: graphical, numerical, analytical, or verbal to solve real-life problems. They will use limits, derivatives, and integrals to solve problems. They will model a written description of a physical situation with a function, a differential equation, or an integral.

REMARKS: Texas Instrument Graphing Calculator (TI-84 plus or TI-NSpire) is strongly recommended. Students enrolled in this course may have a dual credit option to receive college credit from Joliet Junior College for Math 170. The purpose of this class is to prepare students for the AP Calculus AB test; students are expected to sit for test in May.

AP STATISTICS

GRADES 11, 12
2 SEMESTERS

WEIGHTED
1 CREDIT
4 JJC HOURS

Prerequisites: Algebra 1 and Advanced Algebra; Satisfactory ALEKS placement test score for dual credit in Math 128 at JJC.

Students will focus on mathematical reasoning and the solving of real-life problems. Included are: frequency distributions, measures of position and variation, basic probability theory, probability distributions and the normal curve, statistical inference, correlation and regression, f-test, and analysis of variance. Both a graphing calculator and Microsoft Excel will be used.

REMARKS: Texas Instrument Graphing Calculator (TI-84 plus or TI-NSpire) is strongly recommended. Students enrolled in this course have a dual credit option to receive college credit from Joliet Junior College. The purpose of this class is to prepare students for the AP Statistics test; students are expected to sit for the test in May.

BIOLOGY 1

GRADE 9
2 SEMESTERS

1 CREDIT

Prerequisites: None.

Students will complete independent investigations that will develop their critical reading, writing and analytical skills. The course focuses on the themes of structures and processes in organisms; inheritance and variation of traits; biological evolution; energy, interactions, and dynamics within ecosystems as outlined in the Next Generation Science Standards (NGSS). Students will incorporate the use of the eight key science practices in inquiry-based investigations. This is a laboratory science course that will incorporate scientific reading and writing.

BIOLOGY 1 HONORS

GRADE 9
2 SEMESTERS

WEIGHTED
1 CREDIT

Prerequisites: Must meet district honors criteria.

Students will complete intensive independent investigations that will develop their critical reading, writing and analytical skills. The course focuses on the themes of chemistry of life; cellular transportation; photosynthesis and cellular respiration; cell cycle; DNA and protein synthesis; meiosis and inheritance; evolution; and ecology as outlined in the Next Generation Science Standards (NGSS) and the College Board framework. This is a Pre-Advanced Placement (AP) laboratory science course which will incorporate the eight science practices as well as scientific writing skills.

AP BIOLOGY

GRADES 11, 12
2 SEMESTERS

WEIGHTED
1 CREDIT

Prerequisites: Biology 1 or Biology 1 Honors, Physics 1 or Physics 1 Honors and Chemistry 1 or Chemistry 1 Honors, or concurrent enrollment in Chemistry.

Students will investigate areas in molecular biology, cytology, genetics, comparative anatomy and physiology, and ecology. Students will use the appropriate tools, techniques and methods to solve biological problems at the collegiate level. Scientific research and writing will be highly emphasized. This is a laboratory science course. The purpose of this class is to prepare students for the AP Biology test; students are expected to sit for the test in May.

BIOLOGY 151/152

GRADE 12
2 SEMESTERS

WEIGHTED
2 JTHS CREDITS
10 JJC HOURS

BIOLOGY 151:
Prerequisites: Biology 1 or Biology 1 Honors, Algebra 1, Chemistry 1, or concurrent enrollment, teacher recommendation, and required placement scores. Must meet district honors criteria.

Students will study principles of general biology, including cellular structure and function, molecular biology, energetics, ecology, Mendelian and human genetics, evolution ,and taxonomy. Intended for biology, nursing, or allied health majors and other students planning to take upper level biology courses. This is a laboratory science course.

REMARKS: Students enrolled in this course have a dual credit option to receive college credit from Joliet Junior College.

BIOLOGY 152:
Prerequisites: JJC BIO 151. Students must receive a grade of "C" or higher in Biology 151 in order to enroll in Biology 152 for college credit
Students will study plant and animal kingdoms based upon evolution. Plant and animal structure and function are presented. Population genetics, ecology and animal behavior are also presented with some field study included as part of the laboratory. Intended for students planning to take upper level biology courses. This is a laboratory science course.

REMARKS: Students enrolled in this course have a dual credit option to receive college credit from Joliet Junior College.

CHEMISTRY 1

GRADES 10, 11, 12
2 SEMESTERS

1 CREDIT

Prerequisites: Biology 1 and Algebra 1.

Students will solve chemical problems by using appropriate tools, observations, methods, and measurements; they will be able to identify and reproduce characteristic structures, functions, and interdependence of matter and energy. This is a laboratory science course.

REMARKS: This course is offered in a blended option.

CHEMISTRY 1 HONORS

GRADES 10, 11, 12
2 SEMESTERS

WEIGHTED
1 CREDIT

Prerequisites: Biology 1 Honors and Algebra 1. Must meet district honors criteria.

Students will complete intensive investigations that will develop their critical reading, writing and analytical skills. Students will solve chemical problems by using appropriate tools, methods and measurements. The course focuses on the themes of atomic structure, chemical reactions, changes in energy and equilibrium as outlined in the Next Generation Science Standards (NGSS) and the College Board framework. This is a Pre-Advanced Placement (AP) laboratory science course which will incorporate the eight science practices as well as scientific writing skills.

AP CHEMISTRY

GRADES 11, 12
2 SEMESTERS

WEIGHTED
1 CREDIT

Prerequisites: Biology 1 or Biology 1 Honors, Physics 1 or Physics 1 Honors and Chemistry 1 or Chemistry 1 Honors.

Students will apply chemical principles and investigate those principles by independent research, observations, methods, and measurements; they will be able to verify and justify characteristic structures, functions, and interdependence of matter and energy. Scientific research and writing will be highly emphasized. This is a laboratory science course.

The purpose of this class is to prepare students for the A.P. Chemistry test; students are expected to sit for the test in May.

CHEMISTRY 101/102

GRADE 12
2 SEMESTERS

WEIGHTED
2 JTHS CREDITS
10 JJC HOURS

CHEMISTRY 101:
Prerequisites: Biology 1 or Biology 1 Honors, Chemistry 1 or Chemistry 1 Honors, Algebra 1 or Algebra 1 Honors, teacher recommendation, and required JJC placement scores. Must meet district honors criteria.

Students will survey principles of general chemistry and will apply these concepts through laboratory exercises. Topics of study include atomic theory, atomic and molecular structure, chemical bonding, chemical reaction, stoichiometry, theromchemistry, gases, liquids, solids, solutions, and colligative properties. This is a laboratory science course.

CHEMISTRY 102:
Prerequisites: JJC CHEM 101. Students must receive a grade of "C" or higher in Chemistry 101 in order to enroll in Chemistry 102 for college credit.

Students will study topics such as thermodynamics, kinetics, acid base theory, equilibrium, redox reactions, electrochemistry, spectroscopy and bonding of coordination compounds, topics in descriptive inorganic chemistry and nuclear chemistry. This is a laboratory science course.

PHYSICS 1

GRADES 10, 11, 12
2 SEMESTERS

1 CREDIT

Prerequisites: Biology 1 and Algebra 1.

Students will complete independent investigations that will develop their critical reading, writing and analytical skills. Students will solve physics problems by using appropriate tools, observations, methods, and measurements. The course focuses on the themes of motion, forces, energy, fields, and waves as outlined in the Next Generation Science Standards (NGSS). This is a laboratory science course which will incorporate the eight science practices as well as scientific writing skills

PHYSICS 1 HONORS

GRADES 10, 11, 12
2 SEMESTERS

WEIGHTED
1 CREDIT

Prerequisites: Biology 1 Honors and Algebra 1. Must meet district honors criteria.

Students will complete intensive independent investigations that will develop their critical reading, writing and analytical skills. Students will solve rigorous physics problems by using appropriate tools, observations, methods, and measurements. The course focuses on the themes of motion, forces, energy, fields, circuits, and waves as outlined in the Next Generation Science Standards (NGSS) and the College Board framework. This is a Pre-Advanced Placement (AP) laboratory science course which will incorporate the eight science practices as well as scientific writing skills.

AP PHYSICS 1

GRADES 10, 11, 12
2 SEMESTERS

WEIGHTED
1 CREDIT

Prerequisites: Biology 1 or Biology 1 Honors, and Geometry or Geometry Honors, and/or teacher recommendation.

Students will investigate principles of physics through observation, experimentation, problem solving, and independent research. Students will also be able to analyze and verify physical situations involving time, motion, forces, energy, electricity, waves, light, and modern physics. Scientific research and writing will be highly emphasized. This is a laboratory science course.

REMARKS: The purpose of this class is to prepare students for the A.P. Physics 1 test; students are expected to sit for the test in May.

AP PHYSICS 2

GRADES 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Biology 1 or Biology 1 Honors, Physics 1 or Physics 1 Honors, and Chemistry 1 or Honors Chemistry 1, or concurrent enrollment in Chemistry.

Students will cultivate their understanding of Physics through inquiry-based investigations as they explore fluids; thermodynamics; electrical force, field, and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic, and nuclear physics.

REMARKS: The purpose of this class is to prepare students for the A.P. Physics 2 test; students are expected to sit for the test in May.

ENVIRONMENTAL SCIENCE: ISSUES AND INNOVATIONS

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: Biology or Biology Honors

Students will complete independent investigations that will develop their critical reading, writing and analytical skills. This course offers extensive lab experience that integrates concepts learned from biology and introduces concepts found in chemistry to strengthen individual skills in scientific reasoning and observation.

This course focuses on key principles that govern how nature works, the interactions between human society and ecosystems, and current and potential solutions to environmental problems.

This is a laboratory science course which will incorporate the eight science practices, as well as scientific writing.

REMARKS: This course does not fulfill the physical science course requirement for graduation.

AP ENVIRONMENTAL SCIENCE

GRADES 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Biology 1 Honors and Algebra Honors, Geometry Honors or teacher recommendation.

Students will apply scientific principles, concepts, and methodologies to the inter-relationships of the natural world. Students will also identify and analyze both natural and human-made environmental problems, evaluate the risks associated with these problems and examine alternative solutions for resolving and/or preventing them. Scientific research and writing will be highly emphasized. This is a laboratory science course.

The purpose of this class is to prepare students for the A.P. Environmental Science test; students are expected to sit for the test in May.

FORENSICS SCIENCE 1

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: Biology or Biology Honors and Physics or Physics Honors or concurrent enrollment in Physics or Physics Honors. Recommend Chemistry or Honors Chemistry.

Students will complete independent investigations that will develop their critical reading, writing and analytical skills. This course offers extensive lab experience that integrates concepts from biology, physics and chemistry to strengthen individual skills in scientific reasoning and observation.

Using inquiry-based settings, students will learn scientific and mathematical methods and models required in forensics. Students will focus on crime scene processing and the detection, collection, and presentation of evidence for examination and court use.

This is a laboratory science course which will incorporate the eight science practices, as well as, scientific writing.

REMARKS: This course does not fulfill the physical science course requirement for graduation.

FORENSICS SCIENCE 2

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: Forensic Science 1.

Students will complete investigations that will develop their critical reading, writing and math skills. This course offers extensive lab experience that integrates concepts from biology, physics and chemistry to strengthen scientific reasoning, observation and writing.

Students will apply skills learned in Forensic Science 1 to concepts related to blood spatter analysis, psychology, soil analysis and firearms. This is a laboratory science course which will incorporate the eight science practices, as well as scientific writing.

REMARKS: This course does not fulfill the physical science course requirement for graduation.

MEDICAL TERMINOLOGY

GRADES 10, 11, 12
1 SEMESTER **.5 JTHS CREDIT**

Prerequisites: Biology 1 or Biology 1 Honors and Algebra 1.

Students will study the language of medicine in the various allied health professions. Significant vocabulary will be developed, with an emphasis on the context for understanding and building medical terms.

REMARKS: This course is offered in a blended option.

ARBORICULTURE - HORT 185

GRADE 12 **.5 JTHS CREDIT**
1 SEMESTER **3 JJC CREDITS**

Prerequisites: None.

Students will learn principles in the care and maintenance of ornamental woody plants and shrubs in the landscape and urban forest including factors that affect plants such as soils, nutrition, pruning, plant problem and diagnosis, the Plant Health Care concept, plant structure and function, proper plant sitting, selection, planting and maintenance.

FLORAL DESIGN I - HORT 280

GRADE 12 **1 JTHS CREDIT**
1 SEMESTER **4 JJC CREDITS**

Students will receive an introduction to basic western floral design styles. Presents the basic principles and elements of floral design including traditional floral centerpiece construction, wiring, taping flowers for corsages and boutonnieres, and holiday or special occasion designs. Course emphasizes design principles and elements. Identification,care and handling of fresh flowers and foliages will be discussed.

GREENHOUSE MANAGEMENT AND PRODUCTION - HORT 281

GRADE 12 **.5 JTHS CREDIT**
1 SEMESTER **3 JJC CREDITS**

Prerequisites: None.

Students will study greenhouse construction and operation to cover temperature, light, soils, gasses and nutrition and the growth of bedding crops.

INTRODUCTORY TO HORTICULTURE SCIENCE - HORT 100

GRADE 12 **.5 JTHS CREDIT**
1 SEMESTER **3 JJC CREDITS**

Prerequisites: None.

Students will receive an introduction to horticulture practices including the selection, use, and care of fruit, vegetable and ornamental plants. This course is designed to offer the general student a general introduction to the principles of plant growth and development as they apply to the wide range of horticultural crops and industries related to production, marketing and utilization of horticultural crops.

LANDSCAPE PLANS - HORT 250

GRADE 12 **1 JTHS CREDIT**
1 SEMEMSTER **4 JJC CREDITS**

Prerequisites: None.

Students will learn principles of landscape design including an appreciation of various landscape theories and objectives, art in landscape design and special landscape problems.

AMERICAN GOVERNMENT

GRADE 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will understand the foundations and components of the Federal and State governments and become active participants in American government.

REMARKS: This class fulfills the Constitution Test requirement. This course is offered in a blended option.

AP U.S. GOVERNMENT AND POLITICS

GRADE 11, 12 **WEIGHTED**
1 SEMESTER **.5 CREDIT**

Prerequisites: Must meet district honors criteria.

Students will demonstrate an understanding of the American Government with specific emphasis placed on the study of the state and federal constitutions, the principles that influenced our system of government, and direct application of those principles to issues in contemporary American politics. In addition, students will analyze political processes and heavy emphasis will be dedicated to research and writing skills.

REMARKS: This class fulfills the Constitution Test requirement.

The purpose of this class is to prepare students for the A.P. American Government test; students are expected to sit for the test in May.

ECONOMICS

GRADES 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will analyze the components of economic systems and the impact that they have on the American economy.

REMARKS: Fulfills the state requirement for Consumer Education. This course is offered in a blended option.

AP MICROECONOMICS

GRADE 11, 12 **WEIGHTED**
1 SEMESTER **.5 CREDIT**

Prerequisites: Must meet district honors criteria.

Students will demonstrate a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. Emphasis will be placed on the nature and functions of product and factor markets and the role of government in the economy.

The purpose of this class is to prepare students for the Microeconomics A.P. test; Students are expected to sit for the Microeconomics AP exam.

AP EUROPEAN HISTORY

GRADES 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Must meet district honors criteria.

Students will analyze the political, economic, and social characteristics that have contributed to the development of modern Europe. Given that this course is taught at the honors level, critical thinking, writing, and research skills will be given additional emphasis while paying special attention to the application and synthesis of course content.

The purpose of this class is to prepare students for the A.P. European History test; students are expected to sit for the test in May.

THE AFRICAN AND LATIN AMERICAN EXPERIENCE TO 1865

GRADES 9, 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will analyze the political, economic, social, and cultural experiences of African Americans and Latinos from Ancient African civilizations to the conquest of the Americas through the Mexican American War and the abolition of Slavery. Emphasis will be placed on critical thinking, writing, and research skills while paying special attention to the application and synthesis of course content.

THE AFRICAN AND LATIN AMERICAN EXPERIENCE SINCE 1865

GRADES 9, 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will analyze the political, economic, social, and cultural experiences of African Americans and Latinos from reconstruction in the United States and the rise of Caudillaje in Latin America to contemporary issues facing Blacks and Latinos throughout the world. Emphasis will be placed on critical thinking, writing, and research skills while paying special attention to the application and synthesis of course content.

LAW

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will describe and analyze the structure and function of the American legal system with significant emphasis on constitutional law (particularly the role of the bill of rights in civil and criminal cases), the criminal and juvenile justice system, civil law (with emphasis on tort issues), and consumer and family law. The culminating activity is participation in a mock trial event. Emphasis will also be placed on careers in the legal field and the legal implications associated with various career fields based on student career interest's.

PSYCHOLOGY

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Students will demonstrate an understanding of the six approaches to the development of human behavior and development, examine the human brain for impact on personal and professional behavior, and analyze the implications of learning and cognition in people's lives. Emphasis is also placed on the practice of psychology as it relates to students' career interests and various professions.

AP PSYCHOLOGY

GRADES 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Must meet district honors criteria.

Students will study the behavior and mental processes of human beings and other animals. Students will consider psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students will also discuss ethics and methods psychologists use in their science and practice.

The purpose of this class is to prepare students for the A.P. Psychology test; students are expected to sit for the test in May.

SOCIOLOGY

GRADES 10, 11, 12
1 SEMESTER **.5 CREDIT**

Prerequisites: None.

Introduction to the basic principles, concepts, and methods fundamental to sociology. Emphasis will be placed on the structure and dynamics of human society with special attention to group behaviors, socialization, social institutions, stratification, family, population, and crime.

UNITED STATES HISTORY

GRADE 11
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will analyze the political, economic, social, and cultural trends that have contributed to the development of modern American society.

REMARKS: Required for graduation in the State of Illinois. This course is offered in a blended option.

AP UNITED STATES HISTORY

GRADE 11 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Must meet district honors criteria.

Students will analyze the political, economic, social, and cultural trends that have contributed to the growth and development of American society. Given that this course is taught at an honors level, critical thinking, writing, and research skills will be given additional emphasis while paying special attention to the application and synthesis of course content.

The purpose of this class is to prepare students for the A.P. United States History test; students are expected to sit for the test in May.

REMARKS: Required for graduation in the State of Illinois. This course is offered in a blended option.

WORLD AFFAIRS

GRADE 9
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will develop an understanding of the world and its people in order to engage students in becoming better informed participants in a global society.

AP HUMAN GEOGRAPHY

GRADE 9 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Students must meet district honors criteria.

Students will analyze the systematic study of patterns and process that have shaped human understanding, use, and alteration of the Earth's surface. Students will also employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. In addition, students will learn methods and tools geographers use in their science and practice.

The purpose of this class is to prepare students for the A.P. Human Geography test; students are expected to sit for the test in May.

3D COMPUTER ANIMATION

GRADES 9, 10, 11, 12
2 SEMESTERS

1 CREDIT

Prerequisites: Geometry recommended.

Students will be introduced to the high tech field of computer animation and three dimensional designs used in such industries as game development, architectural and engineering walk-through, movies, and videos. Topics include 2D and 3D drawing,
compound object creation, lighting cameras, backgrounds, materials, special effects, and computer animation. Students will use 3D Studio Max software, Tutorial, and Internet to complete assignments.

COMPUTER MAINTENANCE AND REPAIR

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will learn essential IT skills and knowledge needed to perform tasks commonly performed by advanced end-users and entry-level IT professionals alike, including: Using features and functions of common operating systems and establishing network connectivity, Identifying common software applications and their purpose, Using security and web browsing best practices This course is intended for candidates who are advanced end users and/or are considering a career in IT. The course is also a good fit for individuals interested in pursuing professional-level certifications, such as A+.

REMARKS: Basic computer knowledge and skills are essential.

AUTO TECHNOLOGY

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Students will explore careers in the transportation technology field. They will acquire general and technical knowledge and training related to the automobile with laboratory exercises on the electrical, fuel, mechanical, and chassis systems. A portion of the course deals with small engine repair.

REMARKS: Required for Vocational Auto Mechanics.

VOCATIONAL AUTO MECHANICS 1

GRADES 10, 11, 12
2 SEMESTERS **2.5 CREDITS**

Prerequisites: Auto Technology is required; Electronics & Robotics 1 is recommended.

Students will participate in this A.S.E., N.A.T.E.F., and A.Y.E.S. certified course to prepare them for a career in automotive technology. First semester consists of theory and shop work involving lubrication, tires, exhaust, brakes, steering, suspension and wheel alignment. Second semester consists of theory and shop work involving engines, electrical and fuel systems. Emphasis will be on diagnosis, testing, and repair of automobiles.

REMARKS: This class will meet for 2-1/2 hours daily. West students are transported to and from Central. Students enrolled in this course may have a dual credit option to receive college credit from Joliet Junior College.

VOCATIONAL AUTO MECHANICS 2

GRADE 11, 12
2 SEMESTERS **2.5 CREDITS**

Prerequisites: Vocational Auto Mechanics 1.

Students will prepare for a career in auto mechanics through this ASE, NATEF, and AYES certified second year course. The course will consist of advanced auto mechanical theory.

REMARKS: This class will meet for 2-1/2 hours daily. West students are transported to and from Central.

TECHNICAL/COMPUTER-AIDED DRAFTING (C.A.D.)

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will be introduced to standard drafting practices as well as computer-aided drafting software programs in order to integrate drafting skills with computer technology. Students will develop an understanding of how C.A.D. is used in the employment field, its concepts, terminology and equipment and offers hands-on opportunities to perform tasks that take advantage of the capabilities of the microcomputer. 3-D modeling will be introduced. Career opportunities in C.A.D. will also be explored.

REMARKS: Students enrolled in this course may have a dual credit option to receive college credit from Joliet Junior College.

ARCHITECTURAL DRAFTING

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Technical/Computer-Aided Drafting.

Students will develop technical and creative skills to completely design and draw residential and commercial plans. Computer- Aided Drafting (C.A.D.) is employed with 3-D modeling and animation.

REMARKS: Students enrolled in this course may have a dual credit option to receive college credit from Joliet Junior College.

ENGINEERING GRAPHICS

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Technical/Computer-Aided Drafting.

Students will cover manual drafting as well as computer aided drafting. Drafting techniques will be covered on the drawing boards, 2D and 3D CAD AutoCAD, Inventor and 3D Studio Max design. Engineering Graphics is a necessary course for anyone thinking of a career in any type of industrial design, including engineers, designers and technicians.

REMARKS: Students enrolled in this course may have a dual credit option to receive college credit from Joliet Junior College.

ADVANCED DRAFTING

GRADES 11, 12
2 SEMESTERS **2 CREDITS**

Prerequisites: Technical/Computer-Aided Drafting.

Students will focus on technical drafting, which makes use of mechanical drafting to solve technical and engineering problems, and on architectural drafting, with emphasis on creative planning and design of residential structures. Computer-Aided Drafting (C.A.D.) is employed with 3-D modeling and animation.

REMARKS: Students enrolled in this course may have a dual credit option to receive college credit from Joliet Junior College. This class will meet for 2 hours daily.

ELECTRONICS AND ROBOTICS 1

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will be introduced to basic components, electronic circuitry, electrical theory, testing and troubleshooting of both electric and digital electronic components through practical lab experiences. Students will also be introduced to robotics, electric power production, soldering, and theory progressing to applied wiring techniques used in both residential and commercial applications. Careers in electrical and electronic fields are also explored.

ELECTRONICS AND ROBOTICS 2

GRADE 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Electronics and Robotics 1.

Students will learn advanced components, electronic circuitry, electrical application, advanced testing and troubleshooting of both electric and digital electronic components through practical lab experiences. Students will also learn advanced robotics, electric power production, soldering, and applied wiring techniques used in both residential and commercial applications at advanced levels. Careers in electrical and electronic fields are explored in depth.

METALS TECHNOLOGY

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Students will be exposed to a wide variety of metalworking experiences in this basic course. Units cover sheet metal, forging, heat treating and machine shop processes. Students will learn basic operations on bench tools, metal lathes, mills, grinders, and drilling machines. Career opportunities will also be explored.

PHOTOGRAPHIC COMMUNICATIONS 1

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will learn photographic skills from camera operation to the darkroom to the computer. Students will learn to express their creativity in taking pictures, developing film, enlarging prints, making photo albums, layout and design, desktop publishing, sign making, and screen printing. Orientation to careers in photography and desktop publishing is included.

REMARKS: Students do not need to have a camera. The school provides photographic equipment.

PHOTOGRAPHIC COMMUNICATIONS 2

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Photographic Communications 1.

Students will combine photographic and desktop publishing skills to produce and market products related to photography. Areas explored include: portrait and close-up photography, light controls, filters, desktop publishing and extended photographic products.

REMARKS: Students do not need to have a camera. The school provides photographic equipment.

AP STUDIO ART (DESIGNATION PHOTOGRAPHY)

GRADES 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Photographic Communications 2.

AP Studio Art is designed for students who are seriously interested in the practical experience of art. Students submit individual portfolios for evaluation at the end of the school year. The AP Studio Art Program consists of three portfolios for students to choose from; which includes Two-dimensional Design, Three-dimensional Design, and Drawing, This College Board program provides a national standard for performance in the visual arts that allows students to earn college credit and/or advanced placement while still in high school.

REMARKS: Students are encouraged to furnish their own camera, although it is not necessary.

PLTW INTRODUCTION TO ENGINEERING DESIGN (IED)

GRADES 9, 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Not enrolled in math support.

Students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world's top companies. Students are immersed in design as they investigate topics such as technical sketching and drawing, modeling, measurement, geometry and statistics.

PLTW PRINCIPLES OF ENGINEERING (POE)

GRADES 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Successful completion of PLTW Introduction to Engineering Design with a C or better and completion or concurrent enrollment in Physics/Honors Physics.

Students will explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation through problems that engage and challenge. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

PLTW ENGINEERING DESIGN AND DEVELOPMENT (EDD)

GRADES 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: PLTW Principles of Engineering (POE).

This is an open-ended engineering research course in which students work in teams to design and develop an original solution to a well-defined and justified open-ended problem by applying an engineering design process. Students will perform research to select, define, and justify a problem. After carefully defining the design requirements and creating multiple solution approaches, teams of students select an approach, create, and test their solution prototype. Student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem-solving abilities, and their understanding of the design process.

WELDING TECHNOLOGY

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will receive knowledge/skills in industrial trades through basic oxyacetylene cutting, brazing, and welding, S.M.A.W., G.T.A.W. welding, plasma cuttings, hand and power tools, troubleshooting equipment, layout and planning, and tungsten inert gas welding. Both theory and practice in various welding techniques are covered along with some project work. Orientation to welding careers is included.

WOODS AND CONSTRUCTION 1

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will learn the use of bench tools and machines through this basic construction course. Practical application is made through a series of small projects in building construction with emphasis on layout and planning. Use of hand and power tools will be taught. Woods Technology will give the student opportunities to develop desirable work habits and obtain building trades knowledge/skills.

WOODS AND CONSTRUCTION 2

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Woods and Construction 1.

Students will receive training for careers in advanced construction and woodworking occupations. Students will learn more complicated cabinet and millwork construction utilizing modern woodworking machines and methods. Orientation to careers in woodworking will also be covered.

WOODS AND CONSTRUCTION 3

GRADE 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Woods and Construction 1 and Woods and Construction 2.

Students will progress their woodworking and construction skills to a higher level. Emphasis will be on utilizing the latest machines, tools, and techniques in the construction industry through detailed projects with a higher degree of difficulty. This course develops advanced skills useful in all areas of construction. Career opportunities will also be explored.

INTER-RELATED OCCUPATIONS (I.R.O.)

GRADE 12
2 SEMESTERS **(SEE REMARKS)***

Prerequisites: One credit in Career and Technical Education.

Students will develop positive work habits through a combination of daily classwork in school and work experience in the community averaging 15 or more hours per week. This will help students bridge the gap from school to successful full-time employment.

REMARKS: Students must provide their own transportation to job sites. * .5 credit for class per semester; .5 credit for the first 135 hours of approved work experience per semester; .5 credit for the second 135 hours approved work experience per semester.

AMERICAN SIGN LANGUAGE

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will learn about the history of American Sign Language (ASL), deaf culture, and how to comunicate with the deaf and hard of hearing.

AMERICAN SIGN LANGUAGE II

GRADES 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: American Sign Language.

Students will continue to learn about the history of American Sign Language (ASL), deaf culture, and how to communicate with the deaf and hard of hearing.

FRENCH 1

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will explore the French language through the use of speaking activities, technology, interactive games, videos, French readings, and map work. Students will also gain an appreciation for French culture and its influence in the world. Active participation will increase a solid foundation for communicating in French by developing skills in speaking, reading, writing, and listening.

FRENCH 2

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: French 1 or proficiency.

Students will continue their exploration of the French language through the use of speaking activities, technology, interactive games, videos, French readings, and map work. Students will gain a deeper appreciation for French culture in our global society and build upon their French 1 skills by communicating in past, present, and future tenses.

FRENCH 3

GRADES 9, 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: French 2 or proficiency.

Students will continue their journey in the French speaking world as they strengthen their language skills through the use of engaging, interactive learning activities. Students will explore Francophone literature, history, visual art and culture. Students will challenge themselves with advanced vocabulary and grammatical structure in a French-speaking environment.

FRENCH 4

GRADE 9, 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: French 3 or proficiency.

Students will complete their journey in the French speaking world and increase their confidence as they apply advanced language skills in authentic communicative situations. Students will demonstrate their French language proficiency and continue to challenge themselves through advanced language activities including Francophone literature, arts, film, and grammar.

SPANISH 1

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: None.

Students will begin to develop the four basic skills of listening, reading, writing and speaking in Spanish. The course focuses on communicating in Spanish, gaining an understanding of Hispanic cultures, connecting with other disciplines, comparing one's own native language to Spanish, and participating in multicultural communities. The primary cultural focus is on the country of Mexico.

SPANISH 2

GRADES 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Spanish 1 or proficiency.

Students will continue to develop the four basic skills of listening, reading, writing, and speaking in Spanish. The course focuses on communicating in Spanish, gaining an understanding of Hispanic cultures, connecting with other disciplines, comparing one's own native language to Spanish, and participating in multicultural communities. The primary cultural focus is on the country of Spain.

SPANISH 3

GRADES 9, 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Spanish 2 or proficiency.

Students will continue to develop the four domains of language: listening, reading, writing, and speaking of Spanish. The course emphasizes communicating in Spanish, gaining an understanding of Hispanic cultures, connecting with other disciplines, comparing one's native language to Spanish, and participating in multicultural communities. The primary cultural focus is on the countries of South America.

SPANISH 4

GRADE 9, 10, 11, 12 **WEIGHTED**
2 SEMESTERS **1 CREDIT**

Prerequisites: Spanish 3 or proficiency.

Students will continue to develop the four domains of listening, reading, writing, and speaking in Spanish. The course focuses on communicating in Spanish, gaining an understanding of Hispanic cultures, connecting to other disciplines, comparing one's own native language to Spanish, and participation in multi-cultural communities. Students will be exposed to Spanish literature and will continue to develop their writing skills. Students will examine the cultures of Central America and the Caribbean.

HERITAGE SPANISH 1

GRADE 9, 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Students must be "auditory positive" in Spanish.

Students who are already able to speak and comprehend the Spanish language should take this course to expand their literacy and vocabulary skills in Spanish. Emphasis will be placed on current events, pop culture, and literature.

HERITAGE SPANISH 2

GRADE 10, 11, 12
2 SEMESTERS **1 CREDIT**

Prerequisites: Completion of Heritage Spanish 1.

Students who are already able to speak and comprehend the Spanish language should take this course to expand their literacy and vocabulary skills in Spanish. Emphasis will be placed on current events, pop culture, literature, and writing.

AP SPANISH LANGUAGE AND CULTURE

GRADE 10, 11, 12 — **WEIGHTED**
2 SEMESTERS — **1 CREDIT**

Prerequisites: Spanish 4.

Students will experience a rich and rigorous study of the language and culture of the Spanish-speaking world that is equivalent to an upper-intermediate college or university course. The course is offered as a first step to college-level Spanish after approximately three to five years of classroom study. The purpose of this course is to prepare students for the A.P. Spanish Language and Culture test; students are expected to sit for the test in May.

AP SPANISH LITERATURE AND CULTURE

GRADE 10, 11, 12 — **WEIGHTED**
2 SEMESTERS — **1 CREDIT**

Prerequisites: Completion of AP Spanish Language and Culture.

Students will experience a rich and rigorous study of the literature and culture of the Spanish-speaking work that is equivalent to an upper-intermediate college or university course. The course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, and essays) from Peninsular Spain, Latin American, and Hispanic literature from the United States. Students will continue to develop proficiencies across the full range of communication modes (interpersonal, presentational, and interpretive), thereby honing their critical reading and analytical writing skills. The course also includes a strong focus on cultural connections and comparisons, including exploration of various media (e.g., art, film, articles, literary criticism). The purpose of this class is to prepare students for the A.P. Spanish Literature and Culture test; students are expected to sit for the test in May.

EEAS 101 - BASIC WIRING AND CIRCUIT DESIGN

GRADE 12 — **WEIGHTED**
1/2 SEMESTER — **.5 CREDIT**
4 JJC CREDITS

Prerequisites: Students are selected through an application process based on teacher/counselor recommendation, grades, and attendance.

Students will learn concepts to include the fundamentals of electrical and electronic circuits, the calculation and measurement of voltage, current, resistance and power. Emphasis is placed on safe meter usage, print reading and exposure to a variety of electrical technologies currently used in industry. Topics include: introductory residential wiring, operation of AC motors, industrial solid-state devices, variable frequency drives, industrial controls, and single-phase/three-phase power distribution.

REMARKS: This course is taught by Joliet Junior College Staff on JJC main campus. Students who successfully complete this course have an opportunity to earn 4 college credits. Students are responsible for their own transportation to and from class.

EEAS 111 - INDUSTRIAL CONTROLS I - ANALOG

GRADE 12 — **WEIGHTED**
1/2 SEMESTER — **.5 CREDIT**
4 JJC CREDITS

Prerequisites: Students are selected through an application process based on teacher/counselor recommendation, grades, and attendance.

Students will be introduced to power transmission equipment and machinery components, including belt/chain driven equipment, speed reducers, variable speed drives, couplings, clutches, and conveying equipment. Students will learn the operation, maintenance, and troubleshooting of these types of equipment. Equipment alignment is also covered.

REMARKS: This course is taught by Joliet Junior College Staff on JJC main campus. Students who successfully complete this course have an opportunity to earn 4 college credits. Students must provide their own transportation to and from class.

IMT 101 - INDUSTRIAL MAINTENANCE FUNDAMENTALS

GRADE 12 **WEIGHTED**
1/2 SEMESTER **.5 CREDIT**
3 JJC CREDITS

Prerequisites: Students are selected through an application process based on teacher/counselor recommendation, grades, and attendance.

Students will be provided with a theoretical framework for the understanding of industrial mechanical systems with hands-on activities to reinforce the concepts introduced. Students will learn about OSHA safety programs, maintenance physics, hand and power tools, precision measuring, technical diagrams and assembly prints, fastening devices, lubrication, basic pump operation, and basic pipefitting procedures.

REMARKS: This course is taught by Joliet Junior College Staff on JJC main campus. Students who successfully complete this course have an opportunity to earn 3 college credits. Students must provide their own transportation to and from class.

IMT 121 - INDUSTRIAL FLUID POWER

GRADE 12 **WEIGHTED**
1/2 SEMESTER **.5 CREDIT**
3 JJC CREDITS

Prerequisites: Students are selected through an application process based on teacher/counselor recommendation, grades, and attendance.

Students will study the principles of hydraulics and pneumatics as applied to the basic theory of fluidics and typical industrial circuits. Students will build fluid power circuits as applied to industrial applications.

REMARKS: This course is taught by Joliet Junior College Staff on JJC main campus. Students who successfully complete this course have an opportunity to earn 3 college credits. Students must provide their own transportation to and from class.

LENF 101 INTRODUCTION TO LAW ENFORCEMENT

GRADE 12
1/2 SEMESTER **.5 CREDIT**
3 JJC CREDITS

Prerequisites: Students are selected through an application process based on teacher/counselor recommendation, grades, and attendance.

A three-unit survey course covering the history of law enforcement, an in-depth analysis of the American Constitution as it applies to law enforcement and a career orientation emphasizing the realities of a career in law enforcement at local, state and federal levels of service.

REMARKS: This course is taught by JJC Staff on JJC main campus. Students who successfully complete this course have an opportunity to earn 3 college credits. Students are responsible for their own transportation to and from class.

CRJ 100 INTRODUCTION TO CRIMINAL JUSTICE SYSTEM

GRADE 12 **.5 CREDIT**
1 SEMESTER **3 JJC CREDITS**

Prerequisites: None.

A survey and analysis of the criminal justice system, including an historical and philosophical overview of the development, with special emphasis on the system's primary components and the relationship of these components in the administration of criminal justice in the United States.

REMARKS: This course is taught by JJC Staff on JJC main campus. Students who successfully complete this course have an opportunity to earn 3 college credits. Students are responsible for their own transportation to and from class.

CRJ 105 INTRODUCTION TO CORRECTIONS

GRADE 12
1 SEMESTER

1 CREDIT
3 JJC CREDITS

Prerequisites: None.

Examination of the philosophical background and operational aspects of the correctional task. Federal, state and local organizational jurisdiction of correctional agencies are analyzed, as is a career-oriented study of the field of corrections.

REMARKS: This course is taught by JJC Staff on JJC main campus. Students who successfully complete this course have an opportunity to earn 3 college credits. Students are responsible for their own transportation to and from class.

JJC DUAL ENROLLMENT CAREER PROGRAMS
LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY

EMS 100 INTRODUCTION TO PUBLIC SAFETY CAREERS

GRADE 12
1/2 SEMESTER

.5 CREDIT
2 JJC CREDITS

Prerequisites: Students are selected through an application process based on teacher/counselor recommendation, grades, and attendance.

This course introduces the public service areas of study: fire, EMS and law enforcement/criminal justice. The first third of the course will focus on the fire service, including the history, fireground operations and career options. The second third of the course will focus on EMS, including history, organization, relationship to fire and police fields, and allied health careers. The last third of the course will introduce law enforcement/criminal justice content, focusing primarily on history, operations and careers in the police department and criminal investigation fields. The course will use lecture, hands-on activities, field trips, speakers, basic first aid training and self-defense training as a way to impart the importance of these careers to maintaining public safety and wellbeing.

REMARKS: This course is taught by JJC Staff on JJC main campus. Students who successfully complete this course have an opportunity to earn 2 college credits. Students are responsible for their own transportation to and from class.

EMS 101 FIRST RESPONDER

GRADE 12
1 SEMESTER

1 CREDIT
4 JJC CREDITS

Prerequisites: Students are selected through an application process based on teacher/counselor recommendation, grades, and attendance.

This course contains lecture and hands-on application of skills. The first responder uses a limited amount of equipment to perform an assessment and complete stabilizing interventions. Upon successful completion, the student will receive certification from the Illinois Department of Public Health. This course is a suggested prerequisite to the Emergency Medical Technician - Basic Course.

REMARKS: This course is taught by JJC Staff on JJC main campus. Students who successfully complete this course have an opportunity to earn 4 college credits and certification from IDPH. Students are responsible for their own transportation to and from class.

FSCI 101 PRINCIPLES OF EMERGENCY SERVICES

GRADE 12 **.5 CREDIT**
1/2 SEMESTER **3 JJC CREDITS**

Prerequisites: Students are selected through an application process based on teacher/counselor recommendation, grades, and attendance.

This course provides an overview of fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection/services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire services; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics. This course meets the FESHE guidelines for Principles of Emergency Services.

REMARKS: This course is taught by JJC Staff on JJC main campus. Students who successfully complete this course have an opportunity to earn 3 college credits. Students are responsible for their own transportation to and from class.

FSCI 102 - INTRODUCTION TO FIRE PREVENTION

GRADE 12 **.5 CREDIT**
1 SEMESTER **3 JJC CREDITS**

Prerequisites: Students are selected through an application process based on teacher/counselor recommendation, grades, and attendance.

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation.

REMARKS: This course is taught by JJC Staff on JJC main campus. Students who successfully complete this course have an opportunity to earn 3 college credits. Students are responsible for their own transportation to and from class.

NA 101 CERTIFIED NURSE ASSISTANT TRAINING PROGRAM

GRADE 12 **2 CREDITS**
1 SEMESTER **6 JJC CREDITS**

Prerequisites: Heath Science, Biology or PLTW Principles of Biomedical Science with a grade of "C" or higher. Additionally, students must have proof of Basic Life Support (BLS) for healthcare provider certification. .

The Certified Nurse Assistant Training Program at Joliet Junior College is designed to prepare qualified nurse assistants to administer patient care as members of a nursing team in hospitals, nursing homes, home health care agencies and other extended care facilities.
The nurse assistant program is a six credit hour course, which meets the requirements and guidelines for recognition and approval of the Basic Nurse Assistant Training Program as set by the State of Illinois Department of Public Health. The Nurse Assistant program at JJC has been fully approved since 1979. Successful completion of the program, criminal background search, and State Competency Examination assures certification by IDPH.

The program consists of 149 hours of theory, laboratory, and clinical content. Methods of instruction include lecture, discussion, videos, role-playing, laboratory practice sessions, and supervised clinical experience in a nursing home setting.

REMARKS: Students who successfully complete the course receive 2 high school credits and 6 Joliet Junior College credits. The class meets three and one half hours a day, three days per week.

ADVANCED PLACEMENT PROGRAM

The AP Program gives you a chance to experience college-level classes in high school and opens the door to earning college credit before you ever set foot on campus. You'll get to dig deeper into subjects you love while building the skills and confidence you need to succeed in college.
Joliet Township High School offers AP courses in 18 subjects, each of which culminates in an optional exam in May. If you score a 3 or higher (on a scale of 1–5), you could earn college credit, skip intro-level courses, or both at thousands of U.S. colleges and universities. Earning credit in high school means paying for fewer credits in college. It also opens up your schedule, allowing you to take more electives, pursue a second major, or study abroad.
Regardless of your AP Exam score, taking AP courses can have a positive impact on your college applications. Admissions officers know college faculty play a big role in developing AP courses, so they know students who took AP pushed themselves to take challenging, college-level courses. This is something colleges like to see.
Take some time to look through the AP courses we offer. See if any interest you. By taking these courses, you can find out what college work is like while you have the support of teachers you trust in an environment you know.

New AP Exam Registration Process
AP exams will still take place in May, but starting with the 2019-20 school year, students will be asked in the fall to register for their AP Exam(s).
If your AP course doesn't start until after the fall exam ordering deadline, you can register later in the year. For help registering, talk to your AP teacher, counselor, or your school's AP Coordinator.

ADVANCED PLACEMENT SUMMER PROGRAM

Joliet Township High School provides Advanced Placement (AP) Summer Enrichment Programs targeting students that would benefit from additional academic support to be successful in Pre-AP and AP courses in the areas of English, math, and the social sciences.

ADVISORY

Students are placed in a grade level advisory that meets 25 minutes each day with a Teacher/Advisor. The purpose of the Advisory Program is to achieve personalized support by building collaborative relationships between students and teachers. Realistic and positive relationships are maintained in a safe environment with an Advisory team of staff, students, and parents focused on a high school plan with post-secondary goals and transition experiences. The Advisor acts as an Advocate for the students/advisees and monitors their attendance, grades and behavior.

MENTOR 2.0 ADVISORY

Students are matched with external volunteer adult mentors of the same gender, based on career, academic and/or personal interests. Students have structured time two days each week during Advisory to communicate with their mentors via email, through a secured platform. Students and mentors discuss various topics in their weekly emails, including college preparation, career goals, and community awareness. Students meet with their mentors once a month during the school year at supervised after school group events hosted by Big Brothers Big Sisters.

BLENDED LEARNING

JTHS blended learning opportunities challenge and empower students to become active learners through both face to face and on-line instruction. This format allows students more flexibility and control over when they choose to learn. In addition, the blended learning structure exposes students to the online learning environments they are likely to experience in college as well as the work-place.

DUAL CREDIT

Joliet Township High School works in conjunction with Joliet Junior College and University of St. to offer Grade 11 and 12 students dual credit opportunities in career and technical education courses as well as academic courses. Students interested in pursuing dual credit opportunities should contact a District Curriculum Director for information regarding specific guidelines for each course. Each dual credit course listed on Page 5 of this book comes with a unique set of criteria; not all dual credit requirements are the same.

HONORS PROGRAM

Joliet Township High School provides an appropriate as well as challenging education to students. In District 204 no single criterion will exclude a student from consideration. Rather, nomination for the Honors Program is based on the following criteria:

- PSAT test results
- Teacher Recommendation(s)

HOSPITAL/HOMEBOUND

This program is provided to students with a health or physical impairment, which in the opinion of a licensed medical examiner, will cause an extended absence from school and whom school personnel determine can benefit educationally from such a program.

PROJECT LEAD THE WAY (PLTW)

Joliet Township High School offers Project Lead the Way courses as part of the Engineering and Medical programs of study. Project Lead the Way (PLTW) courses offer students an opportunity to continue a quality pre-engineering and pre-medical program with the added benefit of accreditation recognized nationally by post-secondary institutions.

SEAL OF BILITERACY PROGRAM

The purposes of the Seal of Biliteracy program at Joliet Township High School are to encourage the study of languages, certify attainment of biliteracy, provide employers and universities with a method of identifying people with language and biliteracy skills, affirm the value of diversity, and recognize the value of foreign language and native language instruction in public schools. Students who have earned the Seal of Biliteracy have demonstrated a high level of language proficiency sufficient for meaningful use in college and career.

The criteria for earning the Seal of Biliteracy at Joliet Township High School include the following:

a. Completion of the application for the Seal of Biliteracy to the program coordinator
b. Maintain a 3.0 cumulative G.P.A.
c. Formal 4 year study of a second language
d. Demonstrate proficiency in the second language by:
    i. Achieving a 5 or higher composite score on the ACCESS exam
    -Or-
    ii. Achieving an “intermediate high” on the ACTFL exam in the target language
    -Or-
    iii. A score of a “3” or better on the AP (Advanced Placement) exam for a world language (English, **and** Spanish or French).

SPECIAL EDUCATION

Joliet Township High School District 204 is committed to providing a quality education in the least restrictive environment for students with disabilities who require an Individual Education Plan (IEP). During the IEP meeting, the IEP Team which includes parents/guardians, student, and staff develop the student’s Individualized Education Program to determine the special education and related services the student needs to progress through the general education curriculum. Courses offered within the Special Education program include the core requirements required for graduation. For further information regarding course offerings, programs, and services, contact the District Director of Special Services.

SUMMER BRIDGE PROGRAM

The Joliet Township High School Summer Bridge Program is provided for incoming freshman students who benefit additional academic support in literacy and math skills. Students will be identified based on their PSAT scores and invited to participate in the program. This progam will be provided pending funding.

TRANSITIONAL BILINGUAL EDUCATION/TRANSITIONAL PROGRAM OF INSTRUCTION (ENGLISH AS A SECOND LANGAUGE)

The ESL/Bilingual program (Transitional Bilingual Education/Transitional Program of Instruction or TBE/TPI) provides English language learners (ELLs) the necessary support to attain proficiency of the English language (TPI). In instances where a student’s native or home language is Spanish, students also take their core classes in a bilingual environment designed to promote dual literacy in addition to ESL support (TBE). Students are placed in the program based on their results on a universal screener of their English proficeincy and exited from the program based on Federal and State guidelines.