Olathe Public Schools is a partnership of staff, students, parents, and the community.

Mission Statement
To provide a safe, positive environment where all students acquire knowledge and skills, to be productive citizens.

Vision
Students prepared for their future.

Guiding Principles
Student Guiding Principles
Students will demonstrate in actions and words:
• Honesty
• Respect
• Responsibility
• Trustworthiness

Parent/Patron Guiding Principles
• Positive Role Models
• Effective Communicators
• Respect for all
• Advocates for education
• Actively involved

Staff/Board Guiding Principles
• Children first
• Respect for all
• Teamwork
• Excellence and quality
• Commitment to individual needs

Quick Reference

Olathe East
14545 W. 127th
Olathe, KS
913-780-7120
http://schools.olatheschools.com/olatheeast/

Olathe North
600 E. Prairie
Olathe, KS
913-780-7140
http://schools.olatheschools.com/olathenorth/

Olathe Northwest
21300 College Blvd.
Olathe, KS
913-780-7150
http://www.onwravens.net/

Olathe South
1640 E. 151st
Olathe, KS
913-780-7160
http://schools.olatheschools.com/olathesouth/

Olathe Public Schools
14160 Black Bob Rd. • Olathe, Kansas 66063 • 913-780-7000
Visit us on the Web: www.olatheschools.com
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**Notice of Non-discrimination:** The Olathe Public Schools prohibit discrimination on the basis of race, color, national origin, sex, age, or disability in admissions, access, treatment or employment, in its programs and activities as required by: Title IX of the Education Amendments of 1972, Title VI and Title VII of the Civil Rights Act of 1964, the Age Discrimination Act of 1975, the Americans with Disabilities Act (ADA), the Individuals with Disabilities Education Act and Section 504 of the Rehabilitation Act of 1973. Inquiries regarding compliance with applicable civil rights statutes related to ethnicity, gender, the ADA or age discrimination may be directed to Staff Counsel, 14160 Black Bob Road, Olathe, KS 66063-2000, phone 913-780-7000. All inquiries regarding compliance with applicable statutes regarding Section 504 of the Rehabilitation Act and the Individuals with Disabilities Education Act and the Americans with Disabilities Act may be directed to the Assistant Superintendent General Administration, 14160 Black Bob Rd. Olathe, KS 66063-2000, phone 913-780-7000. Interested persons including those with impaired vision or hearing, can also obtain information as to the existence and location of services, activities and facilities that are accessible to and usable by disabled persons by calling the Assistant Superintendent General Administration. (06/10)

**International Language**

AP French I ☀ AP Spanish I ☀ French I ☀ French II ☀ French III ☀ French IV ☀ German I ☀ German II ☀ German III ☀ German IV ☀ Japanese I ☀ Japanese II ☀ Japanese III ☀ Japanese IV ☀ Latin I ☀ Latin II ☀ Latin III ☀ Sign Language I & II ☀ Spanish I ☀ Spanish II ☀ Spanish III ☀ Spanish IV

**Humanities**

4 Credits Total

**Fine Arts: Visual Arts or Performing Arts**

1 Credit (HFA)

**Visual Arts**


**Performing Arts**


**Social Science**

3 Credits (HSS)


**Math, Science and Technology**

7 Credits Total

**Math**

3 Credits (MMA)


Courses that count in more than one category are printed in **red**. A student may not use the same course to count in more than one area.

**Key**

- Available eLearning
- Grade 9 Course
- Kansas Board of Regents Qualified Admission Credit
- Weighted Grade Credit
- 21st Century course
- Courses are pending State Board of Education approval spring, 2013, for social studies credit.

**Individual Focus: 6 Credits Minimum**

The Individual focus credit category is identified for individual academic and career plan choices beyond courses required for graduation under the headings on pages 4 and 5. Students must obtain 6 CREDITS MINIMUM of INDIVIDUAL FOCUS courses. These courses may be from within specific academic disciplines such as music or science, or may be a combination of courses to fit future plans such as a mix of courses in art, technology, Family and Consumer Sciences, business, etc.
## Science

### 3 Credits (MSP)

**Life Science**

- Adv. Application of Sports Medicine
- Adv. Biotechnology: Cellular and Molecular Biology
- Anatomy and Physiology
- AP Biology
- AP Environmental Science
- Applied Biology
- Biology I
- Biotechnology/Life Science Senior Project
- Certified Nurse Assistant
- College Biology
- Exploring Health Careers
- Forensic Biotechnology
- Foundations of Sports Medicine
- Genetics and Biotechnology I & II
- Honors Biology
- Horticulture I & II
- Intro to Exercise Science
- Marine Biology
- Prevention, Treatment and Rehabilitation of Athletic Injuries
- Student Naturalist
- Wellness & Rehab Clinic

### 1 Credit (MTC)

<table>
<thead>
<tr>
<th>Technology 1 Credit (MTC)</th>
<th>Life Skills 2 Credits Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-D, 3-D Animation Design</td>
<td>Practical and Consumer Studies 1 Credit (LCS)</td>
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<tr>
<td>3-D Dynamic Effects Design</td>
<td>2-D, 3-D Animation Design</td>
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<td>3-D Modeling and Dimensional Design</td>
<td>3-D Dynamic Effects Design</td>
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<tr>
<td>Adv. Accounting</td>
<td>3-D Dynamic Effects Design</td>
</tr>
<tr>
<td>Adv. Biotechnology: Cellular and Molecular Biology</td>
<td>3-D Modeling and Dimensional Design</td>
</tr>
<tr>
<td>Adv. C++ Programming</td>
<td>Accounting I</td>
</tr>
<tr>
<td>Adv. Communication Technology</td>
<td>Adv. Accounting</td>
</tr>
<tr>
<td>A+E Pre-Engineering CAD I &amp; II</td>
<td>Adv. Marketing</td>
</tr>
<tr>
<td>Automotive Chassis and Driveline</td>
<td>Adv. Production Technology</td>
</tr>
<tr>
<td>Automotive Electrical and Drivability</td>
<td>A+E Adv. Engineering/CAD III</td>
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<tr>
<td>CaSE Senior Project</td>
<td>A+E Pre-Engineering CAD I &amp; II</td>
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<tr>
<td>Communication Technology</td>
<td>Adv. Communication Technology</td>
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<tr>
<td>Computer Applications 2.0</td>
<td>Adv. Engineering Drawing/CAD IV</td>
</tr>
<tr>
<td>Computer Information Technology</td>
<td>Adv. Digital Photography</td>
</tr>
<tr>
<td>Computerized Accounting III</td>
<td>Adv. Marketing</td>
</tr>
<tr>
<td>Concept Art and Pre-Production Design</td>
<td>Adv. Photography</td>
</tr>
<tr>
<td>Data Forensics</td>
<td>Adv. Production Technology</td>
</tr>
<tr>
<td>Digital Design</td>
<td>A+E Adv. Engineering/CAD III</td>
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<tr>
<td>Digital Film</td>
<td>A+E Adv. Engineering/CAD I &amp; II</td>
</tr>
<tr>
<td>Digital Media Arts Studio</td>
<td>A+E Pre-Engineering CAD I &amp; II</td>
</tr>
<tr>
<td>Digital Media Design &amp; Production</td>
<td>A+E Senior Internship</td>
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<tr>
<td>e-Comm Studio I, II</td>
<td>Animation Essentials I, II</td>
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<tr>
<td>Electronic News</td>
<td>AP Psychology</td>
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<tr>
<td>Engineering Drawing/CAD II</td>
<td>Aquatic Methods</td>
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<tr>
<td>Environmental Design</td>
<td>Architectural Design Drawing/CAD III</td>
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<tr>
<td>Studio II &amp; IV</td>
<td>Auto Collision Technology I &amp; II</td>
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<tr>
<td>Expedition</td>
<td>Technology I &amp; II</td>
</tr>
<tr>
<td>e9</td>
<td>Automotive Chassis and Driveline</td>
</tr>
<tr>
<td>Exploring Graphic Design</td>
<td>Automotive Electrical and Drivability</td>
</tr>
<tr>
<td>Exploring Web Design</td>
<td>AVID 9, 10, 11, 12</td>
</tr>
<tr>
<td>Fundamentals of Design</td>
<td>Baking &amp; Food Science</td>
</tr>
<tr>
<td>Fund of Programming</td>
<td>Basic Digital Photography</td>
</tr>
<tr>
<td>Global Digital Advertising Graphic &amp; Communication Methods</td>
<td>Basic Photography</td>
</tr>
<tr>
<td>Graphic Design I, II</td>
<td>Biotechnology/Life Science Senior Project</td>
</tr>
<tr>
<td>Graphic Design Essentials</td>
<td>Built Environment</td>
</tr>
<tr>
<td>Interactive e-Commerce Web Applications</td>
<td>Drawing and Design</td>
</tr>
<tr>
<td>Intro to Built Environ.</td>
<td>Career and Community Connection</td>
</tr>
<tr>
<td>Career Preparation in Audio/Video</td>
<td>Certified Nurse Assistant</td>
</tr>
<tr>
<td>Communication Technology</td>
<td>Computerized Accounting III</td>
</tr>
<tr>
<td>Concept Art and Pre-Production Design</td>
<td>Concept and Art</td>
</tr>
<tr>
<td>Construction Trades I &amp; II</td>
<td>Convergent Journalism I &amp; II</td>
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<td>Cross-Cultural Connections</td>
<td>Culinary Preparation I &amp; II</td>
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<td>Culinary Arts I, II</td>
<td>Design Presentation</td>
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<td>Culinary Preparation I &amp; II</td>
<td>Design Trends</td>
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<td>Digital Design</td>
<td>Digital Design</td>
</tr>
<tr>
<td>Digital Film</td>
<td>Digital Media</td>
</tr>
<tr>
<td>Digital Media Arts Studio</td>
<td>Digital Media Technology: Yearbook</td>
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<td>Digital Media Technology: Yearbook</td>
<td>Digital Publishing</td>
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<td>Driver’s Education</td>
<td>Driver’s Education</td>
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<tr>
<td>Early Childhood Career Opportunities I, II</td>
<td>Exploring Animation</td>
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<tr>
<td>e-Com Internship</td>
<td>Exploring Health Careers</td>
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<tr>
<td>e-Comm Studio I, II</td>
<td>Exploring Video Production</td>
</tr>
<tr>
<td>Electronic News</td>
<td>Exploring Web Design</td>
</tr>
<tr>
<td>Engineering Drawing/CAD II</td>
<td>Foundations of Sports Medicine</td>
</tr>
<tr>
<td>Entertainment Essentials I &amp; II</td>
<td>Fundamentals of Design</td>
</tr>
<tr>
<td>Entrepreneurship I, II</td>
<td>Global Digital Advertising Graphic &amp; Communication Methods</td>
</tr>
<tr>
<td>Environmental Design Studio II &amp; IV</td>
<td>Graphic Design Essentials II</td>
</tr>
<tr>
<td>Ethics</td>
<td>Interactive e-Commerce Web Applications</td>
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<tr>
<td>Essentials of Visual Design</td>
<td>Interior Design Studio</td>
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<td>Ethics</td>
<td>International Business</td>
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<tr>
<td>Essentials of Visual Design</td>
<td>Interpersonal and Family Relationships</td>
</tr>
<tr>
<td>Ethics</td>
<td>Interpersonal Skills (Peer Mentor)</td>
</tr>
<tr>
<td>Exploring Animation</td>
<td>Intro to Built Environ.</td>
</tr>
<tr>
<td>Exploring Health Careers</td>
<td>Intro to Human Services</td>
</tr>
<tr>
<td>Exploring Video Production</td>
<td>Intro to Engineering Tech</td>
</tr>
<tr>
<td>Exploring Web Design</td>
<td>Intro to Exercise Science</td>
</tr>
<tr>
<td>Foundations of Sports Medicine</td>
<td>Intro to Industrial Tech</td>
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<tr>
<td>Fundamentals of Design</td>
<td>Intro to Law</td>
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<tr>
<td>Fundamentals of Design</td>
<td>Intro to Motion Graphics</td>
</tr>
<tr>
<td>Graphic &amp; Communication Methods</td>
<td>Intro to Psychology</td>
</tr>
<tr>
<td>Graphic Design Essentials</td>
<td>Leadership Studies I, II, III &amp; IV</td>
</tr>
<tr>
<td>Interactive e-Commerce Web Applications</td>
<td>Marketing</td>
</tr>
<tr>
<td>Intro to Built Environ.</td>
<td>Media Production</td>
</tr>
<tr>
<td>Career and Community Connection</td>
<td>Senior Project</td>
</tr>
</tbody>
</table>

## Physical Science

- A+E Capstone
- A+E Chemistry
- A+E Physics
- AP Chemistry
- AP Physics B
- Astronomy
- College Chemistry
- College Physics
- Fundamentals of Physics
- General Chemistry
- Honors Chemistry
- Lab Tech
- Materials Science & Engineering
- Physical Science
- Physics I

## Earth/Space Science

- Adv. Geoscience I
- Adv. Geoscience II
- Aquatic Methods
- Astronomy
- Physical Oceanography

## Technology

- Aquatic Methods
- Adv. Biotechnology: Cellular and Molecular Biology
- Anatomy and Physiology
- AP Biology
- AP Environmental Science
- Applied Biology
- Biology I
- Biotechnology/Life Science Senior Project
- Certified Nurse Assistant
- College Biology
- Exploring Health Careers
- Forensic Biotechnology
- Foundations of Sports Medicine
- Genetics and Biotechnology I & II
- Honors Biology
- Horticulture I & II
- Intro to Exercise Science
- Marine Biology
- Prevention, Treatment and Rehabilitation of Athletic Injuries
- Student Naturalist
- Wellness & Rehab Clinic

## Health and Wellness

### 1 Credit (LPH)

- Nutrition & Wellness
- Parenting and Child Development
- PCA Senior Projects
- Personal & Financial Management
- Pre-Engineering Drawing/CAD I
- Pre-Professional/Technical Internship
- Prevention, Treatment and Rehabilitation of Athletic Injuries
- Production Technology Senior Portfolio Projects
- Special Effects Design
- Sports Psychology
- Student Volunteers Symposium
- TAPS
- Technical Theatre I & II
- Textile Design Studio VII
- Visual Merchandising
- Web Design I, II, III
- Web Design Essentials I, II
- Welding Technology I & II
- Wellness & Rehabilitation Clinic
- Work Experience I & II

**Required:** .25 credit health and .75 credit PE Concepts in grade 9

- Cheerleading 9/Health Dance Team 9/Health
- Health Education
- P.E. Concepts
- Sports Medicine Health and Physical Education

---

5
# Olathe District Graduation Requirements:

A. All students take the ACT core curriculum:
   - 4 English; 3 each of Math, Science, and Social Studies. Students continuing education beyond high school must complete the most rigorous classes during all four years of high school.

B. Students must meet Olathe graduation requirements to be eligible to participate in the graduation exercises. **EXCEPTION:** Seniors who transfer from other school districts and who have been on track to meet graduation requirements in their former school, but cannot meet the twenty-four (24) Olathe unit requirement, will be allowed to graduate with their class. The transfer student must meet the minimum requirements of the Kansas Department of Education.

C. Students should be advised that any credit earned after their eighth grade year will be counted as senior high credit. Example: Driver Education.

D. Students should consult with their counselor and use Career Cruising regarding course selection to meet grad requirements, interest and possible college/career progress.

E. All credits from the center-based career and technical education courses offered at Millcreek Center (OATC), Olathe North, Olathe Northwest and Harmony/Heartland (see pages 42-45) are granted by the home high school.

F. With the exception of quarter credit classes, all course credits will be issued on a semester basis.

G. The weighted grading system will be used to determine all Olathe student honors and distinctions.

---

## Kansas Regents Admission Requirements

Students applying to any of the six Kansas Regents universities (listed below) must meet specified admission criteria. It’s important that you and your family know and understand these requirements so you are ready for college when you graduate from high school.

The courses you take during high school and how well you do in those classes will impact your plans after high school. Studying diligently in high school opens the door to universities and improves your chances for scholarships and success in your college classes.

Beginning with the Class of 2015, Qualified Admissions’ requirements are revised.

### 2014 Graduates

To qualify for admission to any of the six Kansas Regents universities, you must meet one of the following requirements:

- Achieve an ACT composite score of 21 or above; or,
- Rank in the top one-third of your high school’s graduating class; or,
- Complete the Qualified Admission Pre-college curriculum with at least a 2.0 grade (GPA) for Kansas residents and a 2.5 GPA for non-residents on a 4.0 scale.

Although a composite ACT score of 21 is required for admissions to Kansas Regents schools, please be advised that various departments within universities and colleges may require a higher score for placement in credit bearing classes.

### Qualified Admissions Pre-College Curriculum

#### 2014 Graduates:

One option is to complete the Qualified Admission Curriculum with at least a 2.0 GPA on a 4.0 scale.

The following information outlines the high school courses that are required to meet the requirements for admission to any of the six Kansas Regents universities. Courses that are **encouraged, but not required are italicized.**

**Note:** 1 unit = 1 year or 2 semesters

#### English - 4 approved units required

- At least one unit of English or language arts must be taken each year of high school.
- Students are encouraged to take courses in journalism, speech, drama/theater, and/or debate. These courses do not count toward the English requirement.

#### Natural Science - 3 approved units required

- Students must take three units chosen from the following courses:
  - Biology
  - Advanced Biology (2nd Year Biology)
  - Earth/Space Science
  - Chemistry**
  - Physics**
- Students are encouraged to take one additional unit of science chosen from the courses listed above.
  **At least one unit must be in chemistry or physics

#### Math - 3 approved units required in high school at or above the level of Algebra I selected from:

- Algebra I
- Geometry
- Algebra II
- Any mathematics course that has Algebra II as a prerequisite.
- Mathematics courses completed in middle school or junior high do not count toward the Qualified Admissions math requirement.

#### Social Sciences - 3 units required

- Students must complete the following:
  - One unit of U.S. History
  - Minimum of one-half unit of U.S. Government
- Minimum of one-half unit selected from:
  - World History
  - World Geography
  - International Relations
- A one-half unit course may not be used to fulfill more than one requirement. Up to one unit may be selected from:
  - Psychology
  - Economics
  - U.S. Government
  - U.S. History
- Current Social Issues
- Sociology
- Anthropology
- Race and Ethnic Group Relations

#### Foreign Language

- Recommended but not required for Qualified Admissions.

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**Admissions Info:** Contact the Office of Admissions at any Regents university for additional admissions information.

<table>
<thead>
<tr>
<th>University</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emporia State</td>
<td><a href="http://www.emporia.edu">http://www.emporia.edu</a></td>
</tr>
<tr>
<td>Pittsburg State</td>
<td><a href="http://www.pittstate.edu">http://www.pittstate.edu</a></td>
</tr>
<tr>
<td>Fort Hays State</td>
<td><a href="http://www.fhsu.edu">http://www.fhsu.edu</a></td>
</tr>
<tr>
<td>University of Kansas</td>
<td><a href="http://www.ku.edu">http://www.ku.edu</a></td>
</tr>
<tr>
<td>Kansas State</td>
<td><a href="http://www.k-state.edu">http://www.k-state.edu</a></td>
</tr>
<tr>
<td>Wichita State</td>
<td><a href="http://www.wichita.edu">http://www.wichita.edu</a></td>
</tr>
</tbody>
</table>
2015 Graduates forward:
To qualify for admission to any of the six Kansas Regents universities, you must:
• Complete the precollege or Kansas Qualified Admissions Curriculum with at least 2.0 GPA; AND.
• Achieve ONE of the following:
  • ACT score of 21 or higher; OR
  • SAT score of 980 or higher; OR
  • Graduate in the top one-third of their class; AND
• Achieve a 2.0 GPA or higher on any college credit taken in high school.

English - 4 approved units of English, one unit taken each year of high school, ½ unit may be Speech
Natural Science - 3 approved units from the following, one unit must be Chemistry or Physics:
  - Biology
  - Advanced Biology (2nd Year Biology)
  - Earth/Space Science
  - Chemistry
  - Physics
  - Principles of Technology
  - Physical Science

Math - 3 approved units from the following:
  - Algebra I
  - Geometry
  - Algebra II
  - Any mathematics course that has Algebra II as a prerequisite.

AND students must meet the ACT college readiness math benchmark (22 on ACT math subtest) OR
4 approved units, with one unit taken in the graduating year. Three units selected from the following:
  - Algebra I
  - Geometry
  - Algebra II
  - Any mathematics course that has Algebra II as a prerequisite.
  - The fourth unit may be prescribed by the school district and must be designed to prepare students for college.

Social Sciences - 3 approved units
• Students must complete the following:
  - One unit of U.S. History
  - Minimum of ½ unit of U.S. Government
• Minimum of ½ unit from the following:
  - World History
  - World Geography
  - International Relations
• Approved courses from the following may be used to complete the requirement:
  - Psychology
  - Economics
  - U.S. Government (additional course)
  - U.S. History (additional course)
  - Current Social Issues
  - Sociology
  - Anthropology
  - Race and Ethnic Group Relations

Electives - 3 approved units from the following:
  - English
  - Math
  - Natural Science
  - Social Science
  - Fine Arts
  - Computer/Information Systems
  - Foreign Languages
  - Personal Finance
  - Speech, Debate, Forensics
  - Journalism
  - Career and Technical Education

Kansas Regents Scholarships
As a Kansas high school graduate, you may be eligible for one of four state-sponsored scholarship programs:
• State Scholars Program
• Minority Scholarship Program
• Nursing Service Scholarship
• Kansas Teachers Scholarship

To be eligible for the State Scholars Program, you must complete all the required courses for the precollege curriculum (pages 6-7) plus an additional three units as follows.

Math - 1 additional unit; total of 4 units required
• In addition to Algebra I, Algebra II and Geometry, students are required to complete one unit of advanced mathematics selected from analytic geometry, trigonometry, advanced algebra, probability and statistics, functions, or calculus.

Foreign Language - 2 units required
• Students are required to complete two high school units in one foreign language.

Natural Science
• Students applying for a state-sponsored scholarship must take biology, chemistry and physics.

For specific information regarding Kansas undergraduate scholarships, see your counselor and/or go to: www.kansasregents.org.

Special Services
Olathe High Schools provide comprehensive programming for students with special needs. It is a continuum of service options ranging from collaboration in the general education classroom to direct services provided in special service classrooms. Individualized services and programming are provided as directed by an Individualized Education Planning (IEP) Team to students with learning disabilities, emotional and behavioral needs, sensory and physical needs, cognitive and developmental disabilities, speech/language needs, hearing and vision needs, and for students who are gifted. Placement in these programs/services is by Special Education action only.

For information regarding special education services, contact your high school administrator or the Special Services Office at 913-780-7006.

Resource Services
Resource services offer unique and specialized instruction to address goals and objectives established by a student’s IEP. Such services can be provided through direct service or indirect/collaboration services. Resource services may include, but are not limited to, instruction in the areas of educational performance, social/emotional needs, self-help, and transition needs.

Life Skills Services
Life Skills services offer unique and specialized instruction for students with developmental disabilities requiring intensive support. Such support is typically provided in a special education classroom, with an emphasis on the development of functional life skills. Integration into general education classes is determined by the student’s IEP.

Gifted Services
Gifted services offer unique and specialized instruction for students who are eligible and in need of such service. Gifted services are provided through the district’s QUEST program and include either direct and/or indirect service.

Related Services
Related services in many areas such as assistive technology, occupational and physical therapy, music therapy, adaptive physical education, speech and language are available as determined by student’s IEP.
Planning Your Enrollment Choices

This handbook is presented by the Olathe High Schools to the students and parents in Olathe USD 233 as a source of information regarding the courses of study and enrollment procedures of the schools. It describes the comprehensive course offerings available to high school students.

All of the courses offered at each high school are listed in this handbook. A description for each subject has been written so students are aware of the material to be covered in each class.

The courses listed in this handbook are tentative offerings for the 2013-2014 school year. A course will be offered only if enough students enroll to warrant the class. Course offerings and the number of times a class is offered per year are determined by the number of student requests and staff availability. All classes will not necessarily be offered at all schools. The following pages provide a variety of options available to you in planning your high school course of study. Olathe High Schools offer students the opportunity to select their own courses each year. Teachers and counselors offer advice, but it is the student’s responsibility, assisted by his/her parents, to enroll in courses appropriate to post-high school plans.

Students who plan to apply to a selective university, military academy, or to a ROTC program, should contact their counselors by the time they enroll in tenth grade.

We strive to provide the finest education possible and to offer a diversified curriculum. We ask students and parents to accept the responsibility of making careful and wise decisions. The teachers, counselors, and administrative staff of Olathe High Schools are ready to assist all students in selecting a schedule that will fit individual needs and interests.

Students and their parents are encouraged to work in partnership with their counselor to utilize Career Cruising (www.careercruising.com) when developing their course selection and career/academic plans.

Please contact your counselor with questions.

Credit Options

Open Access Policy

The Olathe School District supports an Open Access philosophy. Open Access allows any student desiring to take an advanced course offering, honors or Advanced Placement class, admission into that class. The Olathe District encourages each student to take the most challenging courses for which the student is capable. Student interests, abilities, goals, and past record of achievement should guide course selection.

Weighted Grades

Olathe high schools’ grading system is reflective of a Weighted Grade system. The Weighted Grade System is used to determine academic student honors and distinctions.

A △ used in the PPG indicates grade weighting.

Grade weighting is applied to the courses below for class grades of A, B, or C. The weighted grade system allows for a cumulative GPA of 5.0.

Note to students transferring from other districts: Olathe provides weighted credit only for advanced courses so designated by the Olathe weighting system.

Note: Weighting varies by course; all courses .05 semester except as noted below.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Pre-AP English 1</td>
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<td>Pre-AP English 2</td>
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<tr>
<td>AP English Language &amp; Composition</td>
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<tr>
<td>AP English Literature &amp; Composition</td>
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<tr>
<td>Pre-Calculus</td>
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<tr>
<td>AP Calculus AB</td>
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<tr>
<td>AP Calculus BC</td>
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<tr>
<td>Multivariable Calculus</td>
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<tr>
<td>Linear Algebra</td>
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<td>AP Statistics</td>
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<td>AP Chemistry</td>
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<tr>
<td>AP Environmental Science</td>
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<tr>
<td>AP Physics</td>
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</table>

Advanced Placement

Advanced Placement (AP) is an internationally recognized standard of academic excellence that provides the following benefits to students:

• AP curricula have been successfully mastered by students who are hardworking and dedicated to excellence and typically rank in the upper 25 percent of their class.
• AP can enhance a student’s opportunities for scholarships and career possibilities.
• AP can reduce college costs and the time required to obtain a degree by providing Post-secondary credit for courses and examinations completed successfully in high school. AP exams are given in May and scored by the Educational Testing Service. Students are encouraged to take AP exams to demonstrate successful AP course completion.

Note: Each college or university determines which AP examination/score will be accepted.
21st Century Programs

Entering 9th graders are eligible to make application to 21st Century High School transfer programs; Olathe East Environmental Design, Olathe North Geosciences, Biotechnology/Life Sciences, Animal Health, Sports Medicine/Athletic Training, and Distinguished Scholars; Olathe Northwest Aerospace+Engineering and e-Communication; Olathe South Computer and Software Engineering (CaSE); Olathe East and Olathe South host site-based programs: OlaTHE LEADERShip (OE) and Professional Careers Academy (PCA)(OS). In addition, all four Olathe high schools feature an opportunity for students to complete an endorsement in Fine Arts.

All 21st Century High School Programs offer:

- opportunity to earn a transcript endorsement
- rigorous, relevant academics
- opportunities to work with career experts
- project-based learning/authentic assessment
- pre-professional experiences in a variety of venues

Students may begin exploring their interest in a 21st Century Program during 8th grade year through tours, Open Houses, and information sessions provided by the various programs. Additional information is also available from a variety of sources including: middle and high school counselors, the district Web site, http://21stcentury.olatheschools.com and/or the specific high school where a program is offered.

College Now

10th-12th graders have the opportunity to take academic courses in high school which have been identified by the school district and Johnson County Community College as College-Equivalent Courses (College Now). All College Now students must have attained required ACT scores or JCCC Compass test scores to enroll for JCCC credit. Required scores are listed in individual course descriptions. Upon payment of specified tuition and fees and successful completion of a course, college credit can be earned. Only students admitted to designated college equivalency courses can apply for this college credit option. **Course availability may vary by high school.**

Dual credit courses may be found at [www.jccc.edu](http://www.jccc.edu) or as follows:

- AP/Honors English: Literature and Composition
- AP/Honors United States History
- AP/Honors United States Government
- AP Psychology
- AP Calculus AB
- Convergent Journalism
- Broadcast Production
- AP Calculus BC
- AP Chemistry
- AP Statistics
- College Chemistry
- AP Biology
- College Biology
- College Physics
- German III, IV
- French IV
- AP French V
- Japanese III
- Japanese IV
- Latin III
- Fundamentals of Programming
- C++ Programming
- Java
- Animation Essentials I
- Exploring Animation
- Physics B
- Spanish IV
- AP Spanish V
- AP Calculus AB
- AP Statistics
- AP Calculus BC
- AP Biology
- College Chemistry
- AP Statistics
- AP Statistics
- AP Biology
- College Physics
- German IV
- French IV
- AP French V
- Spanish IV
- AP Spanish V

JCCC will charge an amount not to exceed that charged to any student as tuition for enrolling in similar campus-based courses. No additional charge beyond those authorized for high school rental fees and materials used for classroom activities will be made.

Enrollment information will be distributed in all high school courses designated as college credit classes. Note: Kansas Regents colleges will accept up to 24 credits earned in a high school setting. Contact your school counselor for more information.

Quick Step

10th-12th graders may enroll in courses at Johnson County Community College in the **Quick Step** program. **Quick Step** is for high school students who want to enroll in classes on the JCCC campus. Students interested in the **Quick Step** program should contact their counselor for enrollment procedures and **Quick Step** information. Specific guidelines apply to this dual credit procedure. **Contact your school counselor for more information.**

JCCC/Career Pathways/Articulated Credit

Articulation provides a non-duplicative sequence of progressive classes maximizing the use of resources and minimizing duplication in educational programming. Students may progress directly from Olathe’s high school career pathways by applying for JCCC **advanced standing credit**. The form for **advanced standing credit** and Olathe’s articulation agreements are available at the JCCC website at [www.jccc.edu/career-pathways](http://www.jccc.edu/career-pathways).

- AV Communications
- Visual Arts
- Programming and Software Development
- Web and Digital Communications
- Engineering & Applied Mathematics
- Maintenance
- Production
- Construction
- Design and Pre-Construction
- Mobile Equipment/Maintenance
- Health Science
- Consumer Services
- Early Childhood Development and Services
- Family and Community Services
- Marketing
- Restaurant and Event Management

eAcademy

Virtual Learning courses use online technology to deliver and extend learning for 9th through 12th grade students living in the Olathe Public Schools’ boundaries, including home schooled and homebound students. A limited selection of online courses is offered in the fall and spring semesters with some courses offered during summer session. Courses that are offered online are indicated in each content area’s course matrix in the Program Planning Guide. Successfully completed courses can count as credit toward graduation. Students should see their high school counselor for approval to enroll in online courses. More information is found at [http://eacademyolathe.org](http://eacademyolathe.org).
Eligibility for Participation in School-Sponsored Activities/KSHSAA

Information regarding participation in KSHSAA activities and athletics appears on the KSHSAA physical form or see your Athletic/Activities director.

NAIA Freshman Eligibility Standards

The NAIA Eligibility Center is responsible for determining the NAIA eligibility of first-time student-athletes. Any student playing NAIA sports for the first time must meet the eligibility requirements. Students must have their eligibility determined by the NAIA Eligibility Center, and all NAIA schools are bound by the Center’s decisions.

Students interested in participating in athletics at an NAIA institution are required to satisfy two of the following three requirements:
- Achieve a minimum of 18 on the ACT or 860 on the SAT.
- Achieve a minimum overall GPA of 2.0 on a 4.0 scale.
- Graduate in the top half of your high school class.

Students who have completed their junior year of high school with an overall 3.00 GPA on a 4.00 scale, plus the minimum test scores required (18 ACT or 860 SAT), may receive an eligibility decision early in the senior year.

Go to www.playnaia.org for additional information.

NCAA Freshman-Eligibility Standards Reference Sheet

Core Courses: 16 core courses in high school are required for any student first entering any Division I or Division II college or university beginning August 2013 or after. See the chart below for the breakdown of the core course requirements. Note that the breakdown of core courses for Division I and Division II varies.

Test Scores: Division I has a sliding scale (see to the right) of test score and grade-point average. Please refer to the NCAA Guide for the College-Bound Student-Athlete under the resources tab at www.eligibilitycenter.org for the sliding scale for incoming students August 1, 2016 or later. Division II has no sliding scale but does have a minimum SAT score requirement of 820 or an ACT sum score of 68. The SAT score used for NCAA purposes includes only the critical reading and math sections. (The writing section of the SAT is not used) The ACT score used for NCAA purposes is a sum of four sections: English, math, reading and science.

All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts are not used. When registering for the SAT or ACT, use code 9999 to make sure the score is reported to the Eligibility Center.

Grade-Point Average: Only core courses are used in the calculation of the grade-point average. Make sure you look at your high school’s list of NCAA-approved core courses on the Eligibility Center’s Web site: www.eligibilitycenter.org. Division I grade-point average requirements are listed on the chart to the right. The Division II minimum grade-point average requirement is 2.000.

Requirement to graduate with your high school class

You must graduate from high school on schedule (in eight semesters) with your incoming ninth grade class. You may use one core course completed in the year after graduation (summer or academic year).

The NCAA Guide for the College-Bound Student-Athlete has more detailed information regarding NCAA initial eligibility and what students should be doing each year of their high school career to prepare academically for NCAA eligibility. It is important that each family of a prospective student-athlete becomes familiar with the expectations associated with NCAA eligibility.

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**Arts-Visual**

Students enrolled in these classes develop skills in visual communication, original thinking and creative self-expression. The classes involve viewing and discussing artworks and producing art with a variety of media.

<table>
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<tr>
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<th>Course</th>
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The courses below are part of Olathe’s 21st Century Programs. Reference pages 46 and 54.

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The courses below are available at Olathe North only.

**Drawing I**  
AR 410  .5 Credit  All Grades  
This course is an introduction to drawing and serves as a foundation for other art courses. The course content includes one point perspective, two point perspective, ellipses, cylinders, value, shading, observation, imagination, color, and composition. Media include pencil, ink, and charcoal. The subject matter includes still life subjects ranging from plants, glass, and stone to drapery. There will be an emphasis on drawing from real life. Supplemental experiences will include artists and their works, media demonstrations and exhibiting art works.

**Drawing II**  
AR 420  .5 Credit  All Grades  
**Prerequisite: Drawing I.** This course is an introduction to color theory and is a foundation for drawing III/IV. The course content includes one point perspective, two point perspective, ellipses, cylinders, value, shading, observation, imagination and composition. Media include pencil, ink and pastel. The subject matter includes still life subjects ranging from plants, glass, and stone to drapery. There will be an emphasis on drawing from real life. Supplemental experiences will include artists and their works, media demonstrations, and exhibiting art works.

**Drawing III**  
AR 430  .5 Credit  Grades 10-11-12  
**Prerequisite: Drawing I & II.** This course includes solving complex problems through research and exploration of ways and means of drawing including color, form, contour and value drawing. Students will document their research and idea development in a drawing journal. A wide variety of media will be explored. The subject matter is derived from problems that require research and critical thinking to produce visual solutions. Supplemental experiences will include artists and their works, matting, exhibiting, and introduction to printmaking.

**Drawing IV**  
AR 440  .5 Credit  Grades 10-11-12  
**Prerequisite: Drawing I, II & III.** This course includes solving complex problems through research and exploration of ways and means of drawing including color, form, contour and value drawing. Students will document their research and idea development in a drawing journal. A wide variety of media will be explored. The subject matter is derived from problems that require research and critical thinking to produce visual solutions. Supplemental experiences will include artists and their works, matting, exhibiting, and introduction to printmaking.

**Basic Digital Photography**  
AR 455  .5 Credit  All Grades  
This is an introduction to the concepts, tools and technology of digital imaging for photographers. Students will learn digital technology, including digital cameras and imaging software, and will use their knowledge to produce, create, and/or manipulate images for commercial and/or artistic applications. Students will also experience traditional photographic techniques and vocabulary.

**Advanced Digital Photography**  
AR 465  .5 Credit  Grades 10-11-12  
**Prerequisite: Basic Digital Photography.** This course covers advanced photography skills with an emphasis on craftsmanship, problem solving, and visual communication. Further emphasis is placed on the development of the student’s ability to apply creative thinking and contemporary techniques in executing meaningful and effective photographs.

**Ceramics**  
AR 490  .5 Credit  All Grades  
Ceramic art explores materials and their relation to the various methods of forming clay. Projects include wheel-thrown ceramics, modeling, and coil and slab methods.

**Advanced Ceramics**  
AR 500  .5 Credit  Grades 10-11-12  
**Prerequisite: Ceramics.** This course emphasizes personal expression of clay forms. Students will explore advanced processes, glazes, firing methods. Experimentation and craftsmanship are integral parts of this course.

**Painting**  
AR 530  .5 Credit  Grades 10-11-12  
**Prerequisite: Drawing I.** This course will incorporate acrylic, oil, and watercolor. It will emphasize the study of color, the application of paint to different surfaces, the use of media with different types of paint, and the methods of mixing paints. Emphasis will be on painting from direct observation.
This course is an introduction to the fundamentals of jewelry-making and metalsmithing. Studio experience will lead to competence in basic techniques of working with metals and other materials. Processes may include hand construction, fabrication, soldering, molding, or casting. Supplemental experiences may include the study of the history of metalsmithing, artists and their works, exhibition and gallery visits. Emphasis will be placed upon developing student’s creative thinking to form meaningful solutions to contemporary problems.

Sculpture

AR 570 .5 Credit All Grades

Sculpture is an introduction to the concept of form in three dimensions. Studio experience may incorporate a variety of media into the sculptural form. Supplemental experiences may include the study of artists and their works, exhibition, gallery visits, examination of interdisciplinary relationships, and making connections between sculpture and real life experience.

AP Studio Art

AR 580 .5 Credit Grades 10-11-12

**Prerequisite:** Basic and Advanced levels of concentration area (Drawing, 3D, or Photography). This class is for the very serious and individually driven student who is intent on pursuing an art or design-related course of study. This class may be used to complete rigorous work on AP portfolios and visual arts endorsements.

Art History

AR 850E .5 Credit Grades 10-11-12

This art history course is offered only online. It includes a detailed discussion of the elements and principles of art and how they are used to examine artworks. Artists, their work, and the cultures in which they were created are examined from ancient times to present.

Digital Design

AR 612 .5 Credit All Grades

Combine art and design skills with the latest in graphic software to create new and fantastic imagery. This course will teach students how the basic elements and principles of art and design work with the latest in digital media software like Photoshop, Illustrator, and Flash to become the artist’s tools for the 21st century.

Intro to Motion Graphics

AR 617 .5 Credit All Grades

Capture the power of technology to expand your communications skills with new media. Create a storytelling experience like no other. Motion graphics combines the power of graphic design with the energy of film to create a truly moving communications experience.

Concept Art: Pre-Production Design

AR 642 .5 Credit All Grades

Illustration, design, and digital art for entertainment and industry. Use basic drawing and design skills along with the latest in graphic software to create concept art for a wide variety of careers. From graphic novels to video games, from animation to architecture, from theme park design to fashion design, if you can dream it, you can draw it. Learn the arts of storyboarding, character design, sequential art, book illustration, and concept art for film, industry, and interactive entertainment.

2-D Animation Design

AR 643 .5 Credit All Grades

Create the classic look of 2-D animation for film, television, Web, and video games using basic drawing skills and the latest in graphic software. Learn character and story development, animation principles, and sound and editing skills. It’s more fun than an anvil to the head!

3-D Modeling and Dimensional Design

AR 644 .5 Credit All Grades

Using 3-D modeling software and other digital tools, learn to create fantastic characters, vehicles, buildings, and interactive environments. Animation and gaming only scratch the surface for the many uses of 3-D modeling including architecture, industry, medicine, military, advertising and much more.

Global Digital Advertising

AR 657 .5 Credit All Grades

Students will produce projects that explore the bond between images and the world of advertising. Symbols, posters, add layouts, print media, and motion graphics are all explored with a focus on promoting products to a global economy. Students will work with a wide variety of digital tools to create eye-popping promo materials.

3-D Animation Design

AR 672 .5 Credit All Grades

Use 3-D animation software and other graphics tools to tell your story! Learn character and story development, animation principles, and sound and editing skills. Design your animations for film, television, and video games. Impress your friends, family, and future boss as your ideas come alive in 3-D!

3-D Dynamic Effects Design

AR 677 .5 Credit All Grades

Master the art of realistic effects and animation using particles, physics, and colliding forces! Using 3-D animation software, you can create fire, water, wind, and smoke. You can crash objects together, blow things up, or burn things down and not worry about the FBI at your door. Use your skills in film, animation, interactive design, industry, and even law enforcement.

Special Effects Design

AR 682 .5 Credit All Grades

Using 3-D modeling software, Photoshop, compositing tools, and studio filming tricks, learn to inject yourself or friends into computer generated (CG) environments, or turn loose CG creatures and creations into our everyday world. Use your new skills in film, video games, advertising, architecture, and industry to bring reality and fantasy together.
Business and computer courses are a key to preparing students for the roles they will be assuming in today's society.

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Business Essentials  
**BU 500P**  .5 Credit  
Grades 9-10

Business Essentials is designed for the student who seeks an introduction to business, marketing, and management. Students will develop the skills necessary to succeed in the business environment by studying forms of business ownership, functions of management, budgeting and finance, accounting, business communications, law, marketing, and economics. It is appropriate for any student interested in entrepreneurship and owning their own business.

Personal & Financial Management  
**HE 450P**  .5 Credit  
Grades 10-11-12

This course provides practical information and teaches essential skills as students transition to independent living whether a dorm, apartment, or home ownership. These topics will be explored: career & lifestyle management, financial management, planning & money management, credit & debt, risk management, and saving & investing. Activities will focus on students making decisions that will assist them with living on their own.

Entrepreneurship I  
**BU 520P**  .5 Credit  
Grades 11-12

**Recommended: Previous or concurrent enrollment in a business course.** This course is designed to teach the student the basic principles and practices of owning a business. Students will learn about planning, organizing, controlling, problem-solving, and decision-making as it relates to owning a small business. Students will explore the free enterprise system through a combination of case studies, group work and speakers.

Entrepreneurship II  
**BU 525**  .5-2 Credits  
Grade 12

**Prerequisite:** Entrepreneurship I or teacher recommendation. This 12th grade capstone course allows students to follow 1 of 2 possible strands: 1) mentoring with an existing entrepreneur, 2) launching a business.

Marketing Management A Sem 1/B Sem 2  
**BU 530P**/**535P**  .5 Credit  
Grades 11-12

**Prerequisite: A business course or concurrently enrolling in a business course.** Do you like to be in charge? Management skills are in high demand no matter what profession you choose. This course provides useful knowledge of a variety of management functions. Included are units on personal management skills, types of business ownership, human resource, operations management and career explorations. **Guided Enrollment Note:** Students may enroll in Semester 1 or Semester 2 or full year.

Introduction to Law  
**BU 540**  .5 Credit  
All Grades

This is an introductory course designed to inform individuals of their rights and obligations in business and personal dealings. Included are units on criminal and civil law, law for the minor, courts and trials, and contracts. To help the student gain a better understanding of the law, actual case studies will be used to explain specific points. A mock trial, videos, guest speakers, and possible field trips are also part of the course.
**Business and Computers**

**Marketing I**  
BU 545P .5 Credit  All Grades  
This course provides an introduction to a variety of topics related to the field of marketing and sales: competition, market research, promotional strategies, developing a marketing plan, economic concepts, etc.

**Advanced Marketing**  
BU 550P .5 Credit  Grades 10-11-12  
Students in Advanced Marketing will increase their Marketing knowledge and implement real world marketing strategies in real world situations. Students will evaluate their use and effectiveness of advanced marketing techniques in regards to detailed sales and promotions.

**Accounting I**  
BU 560P .5 Credit  All Grades  
This is the first in a sequence of three courses that are a must for those who intend to pursue careers in business. Accounting is the language of business and will be required of anyone attending a business school or pursuing a major or minor in business in college. This course provides a good foundation for future success at the college level as well as many benefits for personal use.

**Advanced Accounting**  
BU 565P .5 Credit  All Grades  
*Prerequisite: Accounting I.* Computerized Accounting II reviews basic concepts learned in the first semester and expands into areas of payroll, special journals, cash register systems, uncollectible accounts, and depreciation. Computers are utilized in the course to reinforce accounting cycle knowledge and give students a realistic view of how many businesses perform accounting tasks. A computer simulation will be completed in the course.

**Computerized Accounting III**  
BU 570 .5 Credit  Grades 11-12  
*Prerequisite: Accounting I and Computerized Accounting II.* This is an advanced course covering partnership and corporation accounting. This is for the serious accounting student. If you are interested in majoring in accounting or business in college, this course is highly recommended. Computers are utilized in the course to reinforce accounting cycle knowledge and give students a realistic view of how many businesses perform accounting tasks. Computers and business simulations will be utilized in addition to the text.

**International Business**  
BU 680 .5 Credit  Grades 11-12  
This course provides an introduction to the field of international business. Topic studies include: national economic and cultural language of business and will be required of anyone attending a business school or pursuing a major or minor in business in college. This course provides a good foundation for future success at the college level as well as many benefits for personal use.

**Computer Studies**

**Computer Applications 2.0**  
CP 410P .5 Credit  All Grades  
Students will acquire digital literacy skills essential for success in high school course work and today's jobs. Particular emphasis is focused on computing skills such as electronic research skills, page formatting, filing, and electronic communication used in the students' high school classes. Computer ethics related to the use of texting, email, the internet, website validation and current technology needs are emphasized through the projects completed for this class.

**Digital Media Design & Production**  
CP 420X 1 Credit  Grades 11-12  
*Prerequisite: LA 820X Convergent Journalism I or LA 840X Digital Media Technology: Yearbook.* A technology credit nested within LA 820X or LA 840X available for veteran 11th or 12th grade staff members. Required approval from instructor prior to enrollment.

**Publications & Presentation**  
CP 445P .5 Credit  All Grades  
Students will gain advanced knowledge and skills in word processing and presentation software applications as well as get an introduction to desktop publishing and page layout design. They will also become familiar with multiple Web 2.0 applications. Integrated projects will be completed to help students relate their learning to real-world situations.

**Computer Information Technology**  
BU 620 .5 Credit  Grades 11-12  
Students will gain advanced knowledge and skills in word processing and presentation software applications as well as get an introduction to desktop publishing and page layout design. They will also become familiar with multiple Web 2.0 applications. Integrated projects will be completed to help students relate their learning to real-world situations.

**Computer Ethics**  
CP 447P .5 Credit  All Grades  
Students will gain advanced knowledge and skills in word processing and presentation software applications as well as get an introduction to desktop publishing and page layout design. They will also become familiar with multiple Web 2.0 applications. Integrated projects will be completed to help students relate their learning to real-world situations.

**Computer Ethics**  
CP 447P .5 Credit  All Grades  
Students will gain advanced knowledge and skills in word processing and presentation software applications as well as get an introduction to desktop publishing and page layout design. They will also become familiar with multiple Web 2.0 applications. Integrated projects will be completed to help students relate their learning to real-world situations.

**Graphic Design I**  
CP 455P .5 Credit  All Grades  
Students will acquire knowledge of desktop publishing and page layout design skills. They will incorporate industry-standard desktop publishing software and graphics software as well as other digital media to create flyers, newsletters, brochures, and other publications. Students will create a portfolio of work created in the course.

**Graphic Design II**  
CP 458P .5 Credit  Grades 10-11-12  
*Prerequisite: Graphic Design I.* This course is a continuation of Graphic Design I. Students will advance their knowledge and skills with page layout, as well as photo and image manipulation. Students will create basic computer-generated illustrations using a variety of techniques. Course topics include the ways in which visual messages are used in society, the skills needed by a graphic designer and the potential areas of specialization and employment. Students will continue to create a portfolio of work.
Web Design I  CP 553P  .5 Credit  All Grades
A foundation of web design will be gained by learning HTML, the standard web coding language. Once this is established, they will transition to learn an industry-standard graphical user interface to develop and design web pages. Students will also learn how to make digital graphics. Students will incorporate all these, in addition to some basic JavaScript to create website projects. They will have the opportunity to present their websites on the internet.

Web Design II  CP 554P  .5 Credit  Grades 10-11-12
Prerequisite: Web Design I. Students will continue the development of their web designing skills by using industry-standard web development software. Students will learn to use good navigation design and ease-of-use principles while developing projects for the web. Graphic design skills as they relate to the web will also be studied. Web sites will be designed incorporating all the skills learned in this course.

Web Design III  CP 558  .5 Credit  Grades 11-12
Prerequisite: Web Design I and Web Design II. Web design skills will be used to create advanced web sites using CSS formatting, libraries and snippets. Students will also learn about industry-standard software for animation and video creation for the web. Students will create advanced web sites that can be presented via the internet.

Fundamentals of Programming  CP 500P  .5 Credit  All Grades
Students will learn basic programming concepts using animation, simulation and game design with Alice and Greenfoot, which are graphics based programs. In Alice, programming code is dragged and dropped. In Greenfoot, Java code is written by students. Because it is created in a graphics environment, students can immediately see what their code is doing. These programs were designed to aid in programming concept formation. College Now credit will be available for this new course for 10-12th graders. Guided Enrollment Note: Students enrolled in this class may enroll for dual credit through JCCC/College Now.

Visual Basic Programming.Net  CP 510P  .5 Credit  All Grades
This course combines the development of a graphical user interface with fundamental programming skills. The focus is on the understanding of event-driven programs including objects, properties and methods. The student will design, code, run, and debug programs. Course topics will include controls, variables, constants, calculations, decisions and conditions, menus, subprocedures, functions, and multiple forms. Guided Enrollment Note: Successful completion of and/or concurrent enrollment in Algebra I is strongly recommended.

Advanced Visual Basic Programming.Net  CP 525P  .5 Credit  Grades 10-11-12
Prerequisite: Successful completion of OR concurrent enrollment in Algebra II and successful completion of Visual Basic Programming. This course will provide the student with more advanced topics in Visual Basic including the following: lists, loops and printing; arrays; OOP (Object-Oriented Programs); data files; accessing database files; and data handling (grids, validation, selection, and sorting). Depending on available time and the knowledge background of the class, students may also be exposed to graphics, and more advanced topics in Visual Basic.

Java  CP 530P  .5 Credit  Grades 10-11-12
Prerequisite: Successful completion of Visual Basic Programming or Fundamentals of Programming. Using the Java programming language, the student will focus on structured programming techniques, proper program design and object-oriented programming concepts and skills. Guided Enrollment Note: Students enrolled in this class may enroll for dual credit through JCCC/College Now.

C++ Programming  CP 535P  .5 Credit  Grades 10-11-12
Prerequisite: Successful completion of Visual Basic Programming or Fundamentals of Programming. This course is designed for the student who plans to enter the programming field as a career. Students must be able to work independently, be highly motivated, and be able to solve problems as a team. Students will continue to develop C++ programming skills to develop algorithms to solve problems. Topics include use of C++ libraries and arrays and streams, external files, functions, and further work with classes and objects. Ethical programming practices will also be discussed.

The following course is available at Olathe North.

Advanced C++ Programming  CP 540P  .5 Credit  Grades 11-12
Prerequisite: Successful Completion of C++ Programming. This course is designed for the student who plans to enter the programming field as a career. Students must be able to work independently, be highly motivated, and be able to solve problems as a team. Students will continue to develop C++ programming skills to develop algorithms to solve problems. Topics include use of C++ libraries and arrays and streams, external files, functions, and further work with classes and objects. Ethical programming practices will also be discussed.

Digital Media Arts Studio  CP 443  .5 Credit  Grades 11-12
Offered at Olathe North only. Time to create! Choose one of several pre-planned modules to independently explore your own ideas or prepare for the future. Options include post-secondary exploration, demo reel development, portfolio preparation, internship, community service, and cross-discipline cooperative projects. The choice is yours, and the tools, labs, and guidance are at your service. See where your imagination and skill can take you! Guided Enrollment Note: Requires instructor approval to enroll in this class
Family and Consumer Sciences combine high-level academics and technical skills with hands-on learning that maximizes present and future academic and career success.

**Human Services** courses focus on child development, family relationships and nutrition/wellness that relate to families and individual needs.

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**Restaurant and Event Management** courses focus on culinary skills as well as management, marketing and operations of the hospitality industry.

**Visual Design** courses focus on fashion, interiors, textiles and other design related skills.

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<td>VE 341X/VE 341P</td>
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<td>VE 372P/373P</td>
<td>Culinary Arts II Event Plan &amp; Management</td>
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<td>HE 840P</td>
<td>Visual Merchandising</td>
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<td>HE 845P</td>
<td>Design Presentation</td>
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<td>Design Trends</td>
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<td>HE 855P</td>
<td>Interior Design Studio</td>
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<td>HE 860P</td>
<td>Textile Design Studio I</td>
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<td>HE 861P</td>
<td>Textile Design Studio II</td>
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Human Services

Introduction to Human Services
HE 405P .5 Credit Grades 9-10
Introduction to Human Services is designed for students who may be interested in careers in family and community services. Whether that future career is as a social worker, counselor, day care director, dietician or financial advisor, this course introduces the skills, knowledge, attitudes and behaviors necessary to be successful in the Human Services career pathway.

Parenting and Child Development
HE 410P .5 Credit Grades 10-11-12
This course provides students with an understanding of the aspects of human growth and development. Parenting skills are developed as positive guidance techniques and child related issues are studied. Learning activities, observation techniques, and lab experiences in working with young children may be included. Content includes pregnancy, stages of prenatal development, and the physical, intellectual, social and emotional development of the infant and young child. This course is designed to strengthen parenting and guidance skills, positive family relationships, safety, and health practices. Students will learn to evaluate child care services and to explore careers related to young children.

Interpersonal and Family Relationships
HE 420P .5 Credit Grades 11-12
Course topics include self-identity, parent/teen conflicts, teen relationships, sexual decision-making, lifestyle choices, marriage relationships, and growing older. Special emphasis is placed on coping skills for personal crisis management: to include stress, suicide, early pregnancy, substance abuse, domestic violence, acquaintance rape, divorce, and death in the family.

Personal & Financial Management
HE 450P .5 Credit Grades 10-11-12
This course provides practical information and teaches essential skills as students transition to independent living whether a dorm, apartment, or home ownership. These topics will be explored: career & lifestyle management, financial management, planning & money management, credit & debt, risk management, and saving & investing. Activities will focus on students making decisions that will assist them with living on their own.

Career & Community Connections
HE 470P .5-1 Credit Grades 12
Career and Community Connections is the Application level course for the learner to apply technical skills in a professional learning experience, unpaid or paid, outside or within the school environment. Included will be continued development and finalization of the student’s portfolio. Career and Community Connections provides the opportunity for learners to focus on career related topics, team building and effectiveness in the world of work and acquiring job-seeking skills and retention needed to advance within the workplace.

Nutrition & Wellness
HE 610P .5 Credit All Grades
This course is designed to give students practical applications for health and well-being. The students will have the opportunity to study all types of diets, nutrition information, and a wide variety of exercise programs. They will develop a sensible, healthy program they can use for lifetime weight control. This class may be taught by a Family and Consumer Sciences teacher and a Physical Education teacher.

Guided Enrollment Note: This class is a requirement for the Sports Medicine endorsement.

The following program is available at Harmony or Heartland early childhood centers to all Olathe students attending any of the four Olathe High Schools. See the Technical Education section beginning on page 42.

ECCO I VE 411X
Orientation/Foundations to Early Childhood Development
VE 411P/412P 2 Credits Grades 11-12
Early Childhood Career Opportunities I (ECCO I) is for the student who is interested in learning about young children and who wishes to work with preschoolers in an education setting. Students are introduced to careers in the field of early childhood education. Three days of the week, high school students assist with planning and implementing learning activities with children in the preschool classroom. The other two days, high school students plan and prepare for the preschooler and study related topics such as: growth and development, health and safety, working with children with special needs, and child care and education career opportunities. Guided Enrollment Note: This course is taught at Heartland or Harmony Early Childhood Centers.

ECCO II VE 421X
Functions/Applications in Early Childhood Development
VE 421P/422P 2 Credits Grade 12
Prerequisite: ECCO I. ECCO II is designed for seniors who completed ECCO I and who want to explore additional aspects of the early childhood profession. In ECCO II, students apply the information they learned in ECCO I in various preschool and early primary classrooms within the Olathe District. Students develop a professional resume and portfolio. Workshops and seminars on effective teaching strategies, child development, and other aspects of effective instruction are included in the coursework. Guided Enrollment Note: INDIVIDUAL TRANSPORTATION REQUIRED.

Restaurant & Event Mgmt

Baking and Food Science
HE 550P .5 Credit All Grades
This course will prepare students for careers or post secondary programs related to the baking and pastry culinary business and industry. The student will apply the knowledge and skills of how basic ingredients function, baking/pastry vocabulary, and mixing techniques to produce baking/pastry products based on industry standards. Using commercial-grade equipment, students will develop skills in basic bread and pastry techniques to produce breads, muffins, biscuits, pies, cakes, pastries, and specialized desserts. The attention to detail and artistic flair are key skills that begin to develop during this class. This class is a strongly recommended course for the Culinary Arts program.

Culinary Preparation I
HE 560P .5 Credit All Grades
This course is the first of a series that will prepare students for careers or post secondary programs related to the Culinary Arts/Baking and Pastry business and industry. Students will develop skills in safety and sanitation and basic techniques required in food preparation. This class is a strongly recommended course for the Culinary Arts program.

Culinary Preparation II
HE 570 .5 Credit Grades 11-12
Prerequisite: Culinary Preparation I and Baking and Food Science. Students will learn creative cooking techniques designed to serve foods with a flair. There is an added emphasis on gourmet specialties, garnishes, international cooking, and entertaining.
The following program is available at Olathe North to all Olathe students attending any of the four Olathe high schools. See the Technical Education section beginning on page 42.

**Culinary Arts I**
*VE 341X*
*Prerequisite: Culinary Preparation I and/or Baking and Food Science.* This structured Culinary Arts program develops high level skills and competence demanded in the food service industry. The students have a monthly opportunity to work in the Culinary restaurant. This is a sequential program that prepares students for occupations and higher education programs of study related to culinary arts and the hospitality industry.

**Culinary Arts II**
*VE 370X*
*Prerequisite: Culinary Arts I.* This in-house Training program is for the student who has an interest in the culinary industry. Areas of interest include teamwork, decision making process, personal career skills, goal setting, leadership, business etiquette, conflict resolution, professional dress, communication, workplace ethics, career education, resume writing, finding and applying for a job, and interview preparation. The students have a monthly opportunity to manage the Culinary restaurant. Upon completion of this course the student will be prepared for positions in the hospitality industry.

**Visual Design**

**Essentials of Visual Design**
*HE 835P*  .5 Credit  All Grades
Essentials of Visual Design is HIGHLY RECOMMENDED as the first course to introduce students to and expand upon the various aspects of the design industry. Concepts covered will include elements and principles of design, textiles, and production processes as well as provide a discussion and exploration of career opportunities.

**Visual Merchandising**
*HE 840P*  .5 Credit  All Grades
Visual Merchandising is a course that centers upon the marketing of design products. Topics include design history, marketing, visual merchandising, accessories, and drafting/drawing skills. Students create a variety of projects focusing on course content.

**Design Presentation**
*HE 845P*  .5 Credit  Grades 10-11-12
Design Presentation will provide students an opportunity to explore and create floor plans, fashion sketches, and learn how to professionally present student work. Techniques may include portfolios, display boards, and a variety of other presentation styles.

**Design Trends**
*HE 850P*  .5 Credit  Grades 10-11-12
Design Trends will provide students an opportunity to explore future trends in design and their effectiveness within a professional presentation while utilizing a variety of technology. Techniques may include the use of computer software programs, portfolios, display boards, and fashion show production.

**Interior Design Studio**
*HE 855P*  .5 Credit  Grades 10-11-12
Interior Design Studio is the study of design principles as they apply to interiors. The course will include extensive learning experiences in furnishings and design related projects. The final project involves selection of a blue print to meet a client’s needs, drafting a floor plan to scale, furniture selection and arrangement, selection of background treatments, and a presentation of all work.

**Textile Design Studio I/II**
*HE 860P*  .5 Credit  Grades 10-11-12
*HE 861P*  .5 Credit  Grades 10-11-12
*HE 860X*  1.0 Credit
Textile Design Studio, which is divided into Textile Design Studio I & II, will provide students with a true life, “project runway” experience. Students will learn construction techniques and garment design while working with teams of other students and individually to create design projects. Guided Enrollment Note: Textile Design Studio I is a prerequisite for Textile Design Studio II.

**Visual Design Studio I/II**
*HE 863X*  1.0 Credit  Grades 11-12
*HE 865X*  1.0 Credit
Visual Design Studio is for the student who has an interest in the design industry. Areas of interest will offer an extended learning opportunity for students to apply communication, leadership, employability, cooperative learning, business etiquette, and professional presentation skills. Students will create a variety of studio projects, individually and in teams, to solve real-world, design industry problems. Credit may vary according to student and building needs. In order to enroll in Visual Design Studio, a student must have completed 1 full credit within the Design program.
Students enrolling in an International Language class are empowering themselves to seek understanding of cultures and peoples in our local and world communities. It is imperative that all students have the opportunity to develop language proficiency and cultural skills in other languages in order to function successfully in the 21st century. Our students are offered the opportunity to meet new employment demands created by growing international travel and commerce by staying in the International Language program throughout their high school career.

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International Languages

French I

FL 410X 1 Credit All Grades
French I is the foundation course for the sequence of French I, II, III, IV, and AP French V in the high school. This class is designed for students who want to speak and use French as a foreign language, regardless of previous experience or exposure to the language. Students will be able to converse, ask questions about familiar topics, and handle simple situations. Students continue their study of grammar, idioms and expanded vocabulary topics. In order to promote consistent advancement of proficiency, much of this class is taught in French.

Prerequisite: French I or equivalent competency.

French II

FL 420X 1 Credit All Grades
French II is the second course for the sequence of French I, II, III, IV, and AP French V in the high school. This class is designed for students who have had little or no experience in learning French as a foreign language. Students will continue their study of grammar, idioms and expanded vocabulary topics. In order to promote consistent advancement of proficiency, much of this class is taught in French.

Prerequisite: French I or equivalent competency.

French III

FL 430X 1 Credit Grades 10-11-12
French III is the third course for the sequence of French I, II, III, IV, and AP French V in the high school. This class is designed for students to be able to satisfy most survival needs and limited social demands. The student will be able to converse, ask questions about familiar topics, and handle simple situations. Students will improve reading and writing skills. Students are provided an introduction to literary readings and a greater cultural awareness while continuing an awareness of lifestyles in francophone countries. Students continue their study of grammar, idioms and expanded vocabulary topics. In order to promote consistent advancement of proficiency, most of this class is taught in French.

Prerequisite: French II or equivalent competency.

French IV

FL 440X 1 Credit Grades 11-12
French IV is the fourth course for the sequence of French I, II, III, IV, and AP French V in the high school. This class is designed for students to have the opportunity to expand their skills in speaking, listening, reading, writing and cultural awareness in order to interact with proficient speakers in a culturally appropriate manner. Students continue their study of grammar, idioms and expanded vocabulary topics. In order to promote language proficiency, much of this class is taught in French.

Prerequisite: French III or equivalent competency.

AP French V

FL 450X 1 Credit Grade 12
AP French V is a course designed for students to have the opportunity to expand their skills in speaking, listening, reading, writing and cultural awareness in order to interact with proficient speakers in a culturally appropriate manner. Students continue their study of grammar, idioms and expanded vocabulary topics. Regular attendance and active in-class participation are essential. In order to promote language proficiency, much of this class is taught in French.

Prerequisite: French IV or equivalent competency.

German I

FL 510X 1 Credit All Grades
German I is the foundation course for the sequence of German I, II, III, IV, and AP German V in the high school. This class is designed for students who want to speak and use German as a foreign language, regardless of previous experience or exposure to the language. Students can expect to understand, speak, read and write German in the context of ordinary, daily situations. Students study grammar and basic vocabulary, identify relationships between languages and cultures, and demonstrate an increasing awareness of the civilization and customs of the people of German-speaking countries. In order to promote language proficiency, much of this class is taught in German.

Prerequisite: German I or equivalent competency.

German II

FL 520X 1 Credit Grades 10-11-12
German II is the second course for the sequence of German I, II, III, IV, and AP German V in the high school. This class is designed for students to have the opportunity to expand their skills in speaking, listening, reading, writing and cultural awareness in order to interact with proficient speakers in a culturally appropriate manner. Students continue their study of grammar, idioms and expanded vocabulary topics. In order to promote language proficiency, much of this class is taught in German.

Prerequisite: German I or equivalent competency.

German III

FL 530X 1 Credit Grades 11-12
German III is the third course for the sequence of German I, II, III, IV, and AP German V in the high school. This class is designed for students to be able to satisfy most survival needs and limited social demands. The student will be able to converse, ask questions about familiar topics, and handle simple situations. Students will improve reading and writing skills. Students are provided an introduction to literary readings and a greater cultural awareness while continuing an awareness of lifestyles in German-speaking countries. Students continue their study of grammar, idioms and expanded vocabulary topics. In order to promote language proficiency, this class is taught in German.

Prerequisite: German II or equivalent competency.

German IV

FL 540X 1 Credit Grade 12
German IV is the fourth course for the sequence of German I, II, III, IV, and AP German V in the high school. This class is designed for students to be able to satisfy routine social demands in German. Conversation skill is emphasized. Grammar review and composition are important components of the class. Students will be required to sustain conversation and discussion in the target language and to enrich vocabulary, reading and writing skills through the use of authentic materials. Students will continue to study linguistic structures. Writing and homework are frequent. This class is taught in German.

Prerequisite: German III or equivalent competency.

Spanish I

FL 610X 1 Credit All Grades
Spanish I is the foundation course for the sequence of Spanish I, II, III, IV, and AP Spanish V in the high school. Students can expect to understand, speak, read, and write Spanish in the context of ordinary, daily situations. Students study grammar and basic vocabulary, identify relationships between cultures, and demonstrate an increasing awareness of civilization and customs of the people of Spanish-speaking countries. In order to promote language proficiency, much of this class is taught in Spanish.

Prerequisite: Spanish I or equivalent competency.

Spanish II

FL 620X 1 Credit All Grades
Spanish II is the second course for the sequence of Spanish I, II, III, IV, and AP Spanish V in the high school. Students continue their study of grammar, idioms and expanded vocabulary topics. Regular attendance and active in-class participation are essential. In order to promote language proficiency, much of this class is taught in Spanish.

Prerequisite: Spanish I or equivalent competency.
**Japanese III**  
**FL 760X 1 Credit  Grades 11-12**  
**Prerequisite:** Japanese II or equivalent competency. Students will refine their communication skills on all levels through reading and discussing authentic materials utilizing Japanese both inside and outside the classroom. Students will also research modern Japanese topics stemming from international situations. Preparation for post high school studies is also included. This class is taught in Japanese.  
**Guided Enrollment Note:** Students enrolled in this class may enroll for dual credit through JCCC/College Now.

**Japanese IV**  
**FL 770X 1 Credit  Grades 12**  
Students will be able to satisfy routine social demands in Japanese. Conversation skill is emphasized. Grammar review and composition are important components of the class. Students will be required to sustain conversation and discussion in the target language and to enrich vocabulary, reading and writing skills through the use of authentic materials. Students will continue to study linguistic structures. Writing and homework are frequent. This class is taught in Japanese.  
**Guided Enrollment Note:** Students enrolled in this class may enroll for dual credit through JCCC/College Now.

**Sign Language I**  
**WW 710 .5 Credit  All Grades**  
Sign Language 1 is an introduction to the basic techniques of manual communication including finger spelling, Signed English, and American Sign Language (ASL). The major emphasis will be on building a vocabulary base of between 800 and 1,000 signs. Attention will also be given to the history of Deaf Education and Sign Language as well as an introduction to deaf culture.

**Sign Language II**  
**WW 715 .5 Credit  All Grades**  
**Prerequisite:** Successful completion of Sign Language I. In this class students will continue to improve their receptive and expressive vocabulary with added emphasis on the grammar structures of ASL. Students will begin working on their conversational sign skills and will continue to explore deaf culture.
When students enroll in both required and elective language arts classes, they have the opportunity to develop abilities in and an understanding of writing, reading, speaking, listening, thinking, and evaluating as they study the academic content of language, literature, and composition.

### English I

**LA 310X** 1 Credit  Grade 9

This course includes the study of literature, composition and the writing process, vocabulary, and grammar. In addition, students will also experience informational text that will enrich the ELA experience. Students will also produce writing for a variety of purposes and audiences; all of which will be grounded in claims and supported with evidence from the text.

### English I Pre-AP/Honors

**LA 315X** 1 Credit  Grade 9

This course is open to all students who desire a literary/linguistic challenge. Students will be challenged to think creatively and critically. They will examine various literary genres and write in various forms, including expository and persuasive essays and personal responses. The student will be expected to apply good reading and writing skills and to progress in vocabulary development. **Guided Enrollment Note:** Students complete a summer reading and writing assignment for this class.

### English II/World Literature

**LA 412X** 1 Credit  Grade 10

This course meets the sophomore English graduation requirement. Students will examine and analyze world literature from a variety of genres, cultures, and time periods. In addition, students will also experience informational text that will enrich the ELA experience. Students will also produce writing for a variety of purposes and audiences including: rhetorical and literary analysis, and argumentative essays; all of which will be grounded in claims and supported with evidence from the text.

### English II Pre-AP/Honors

**LA 415X** 1 Credit  Grade 10

This course is open to all students who desire a literary/linguistic challenge. Students will examine various literary genres and write in various forms, including expository and persuasive essays and personal responses. Students will be expected to employ good mechanics in writing and to progress in vocabulary development. **Guided Enrollment Note:** Students complete a summer reading and writing assignment for this class.
### English III

**LA 420X 1 Credit  Grade 11**

This course is a survey of American literature emphasizing reading, critical thinking, grammar, and vocabulary. In addition, students will also experience informational text that will enrich the ELA experience. Students will also produce writing for a variety of purposes and audiences including: rhetorical and literary analysis, and argumentative essays; all of which will be grounded in claims and supported with evidence form the text.

### AP English Language and Composition

**LA 425X 1 Credit  Grade 11**

This course is open to all students who desire a literary/linguistic challenge. This course engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. The course emphasizes the expository, analytical, and argumentative writing that forms the basis of academic and professional communications as well as the personal and reflective writing that fosters the development of writing facility in any context. The course requires that students be able to think, read, and write critically and creatively at an advanced level. The purpose of the course is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. **Guided Enrollment Note:** Students complete a summer reading and writing assignment for this class. The students of this course are strongly encouraged to take the Advanced Placement Language and Composition exam to earn college credit.

### English IV

**LA 430X 1 Credit  Grade 12**

Students will strengthen their communication skills in reading, writing, speaking, and listening. This course requires study of literature, vocabulary, composition, life application skills, language structure, and usage.

### College Prep English IV

**LA 440X 1 Credit  Grade 12**

This course surveys British Literature and emphasizes reading, literary analysis, critical thinking skills, grammar, usage, and vocabulary. In addition, students will also experience informational text that will enrich the ELA experience. Students will also produce writing for a variety of purposes and audiences including: rhetorical and literary analysis, expository and persuasive writing, and argumentative essays; all of which will be grounded in claims and supported with evidence form the text.

### AP English Literature and Composition

**LA 445X 1 Credit  Grade 12**

This course is open to all students who desire a literary/linguistic challenge. Instruction focuses on the teaching of advanced composition skills through the analysis and synthesis of classic and contemporary British literature and other readings. Student writings include impromptu essays, extended essays, and reader responses with an emphasis on literary analysis. The course requires students be able to think, read, and write critically and creatively at an advanced level. **Guided Enrollment Note:** Students complete a summer reading and writing assignment for this class. The students of this course are strongly encouraged to take the Advanced Placement Literature and Composition exam to earn college credit.

### Creative Writing

**LA 520 .5 Credit  Grades 11-12**

This course offers highly motivated students an opportunity to become disciplined writers by writing in a variety of forms, including poetry and fiction. Because the student must generally have a sound knowledge of basic mechanics of writing and literary styles, the class is reserved for juniors and seniors who are serious about writing.

### Advanced Creative Writing

**LA 530 .5 Credit  Grades 11-12**

This course is open to students who have completed Creative Writing, Pre-AP Honors English II, or a Quest project in writing and who exhibit skills in writing poetry and short stories. Three projects will be required during the semester: one in poetry, one in short story, and a third of the student's choice. Projects might include a one-act play, a humorous monologue, or a children's book. Students will learn about publishing and will be encouraged to submit to school-related publications. This is a class for the advanced student who is committed and serious about writing. **Guided Enrollment Note:** A student application including portfolio works should be completed prior to spring enrollment.

### Creative Writing: Literary Magazine

**LA 540 .5 Credit  Grades 11-12**

The primary focus of this class will be to read, evaluate, and select student writings to be published in the school literary magazine. Students will produce the magazine and engage in such activities as layout and design, selection of art and photography, proofreading and editing, desktop publishing, publicity, and sales. On a limited basis, staff members will engage in their own writing activities for submission to the magazine. This class is suggested for those with good organizational and editing skills, the ability to judge work on its literary merit, and the ability to work independently. Staff size is limited. **Guided Enrollment Note:** This course may be repeated by permission of the instructor. A student application including portfolio works should be completed prior to spring enrollment.

### Convergent Journalism I

**LA 820P 1 Credit  All Grades**

Students will receive instruction in and will practice the various types of journalistic writing, editing, page design, headline writing, and other journalistic skills. These skills will be evidenced in products such as the school newspaper, the newspaper's website, podcasts, and/or video productions. Students will also conduct the business of the newspaper, such as advertising sales, billing, and distribution. Students will receive instruction in and will practice the various types of copy writing, editing, graphic design, layout, headline writing, and other journalistic skills. These skills will be evidenced in products such as advertising sales, billing, and distribution. Students will also explore the role and uses of a variety of digital media. **Guided Enrollment Note:** This course may be repeated by permission of the instructor. Students should complete an application prior to spring enrollment. Students (grades 11-12) wishing to fulfill a technology credit can enroll in CP 420X.

### Digital Media Technology: Yearbook

**LA 840X 1 Credit  All Grades**

Students will receive instruction in and will practice the various types of copy writing, editing, graphic design, layout, headline writing, and other journalistic skills. These skills will be evidenced in products such as the school newspaper, the newspaper's website, podcasts, and/or video productions. Students will also explore the role and uses of a variety of digital media. **Guided Enrollment Note:** This course may be repeated by permission of the instructor. Students should complete an application prior to spring enrollment. Students (grades 11-12) wishing to fulfill a technology credit can enroll in CP 420X.

### English Language Learners

**LA 910X 1 Credit  All Grades**

This course is designed to teach both written and spoken English to students whose native language is other than English.
### Mathematics

#### Algebra I
**MA 520X** 1 Credit  Grades 9-10
Students will contrast linear and exponential relationships and apply linear models to data that exhibit a linear trend and will engage in methods for analyzing, solving and using quadratic functions. Students will also focus on descriptive statistics. The student will need access to a scientific calculator on a regular basis. Guided Enrollment Note: Enrollment based on teacher recommendation.

#### Applied Algebra I
**MA 542X** 1 Credit  Grades 9-10
Students will contrast linear and exponential relationships and apply linear models to data that exhibit a linear trend and will engage in methods for analyzing, solving and using quadratic functions. Students will also focus on descriptive statistics. The student will need access to a scientific calculator on a regular basis. Guided Enrollment Note: Enrollment based on teacher recommendation. This course is not approved for NCAA Div. I and Div. II eligibility.

#### Geometry
**MA 540X** 1 Credit  Grades 9-10-11
**Prerequisite:** Successful completion of Algebra I or 8th grade CMP2. Instruction emphasizes Euclidean, transformational, and coordinate geometry, Pythagorean Theorem and distance formula, properties of polygons, circles, and 3-dimensional figures, perimeter, area, volume, similar and congruent figures for solving and using in proofs, constructions, several approaches to proofs, development of mathematical reasoning and applications in conditional probability. Guided Enrollment Note: Geometry covers topics in greater depth than in Applied Geometry and is the recommended precollege core mathematics curriculum.

#### Intermediate Algebra
**MA 525X** 1 Credit  Grades 11-12
**Prerequisite:** Successful completion of Applied Geometry or Algebra I. This course is designed to provide a transition to the Algebra II course for the following year. Instruction emphasizes fundamental concepts in the Algebra II curriculum while reinforcing those Algebra I skills which are essential for the understanding of Algebra II concepts. Guided Enrollment Note: Enrollment based on teacher recommendation. This course is not approved for NCAA Div. I and Div. II eligibility.

#### Applied Geometry
**MA 544X** 1 Credit  Grades 10-11
**Prerequisite:** Successful completion of Applied Algebra I or Algebra I. Instruction emphasizes Euclidean, transformational, and coordinate geometry, Pythagorean Theorem and distance formula, properties of polygons, circles, and 3-dimensional figures, perimeter, area, volume, similar and congruent figures for solving and using in proofs, constructions, several approaches to proofs, development of mathematical reasoning and applications in conditional probability. Guided Enrollment Note: Enrollment based on teacher recommendation. This course is not approved for NCAA Div. I and Div. II eligibility.
### Algebra II
**MA 550X  1 Credit  Grades 10-11-12**

**Prerequisite:** Successful completion of Applied Geometry or Geometry. Instruction emphasizes polynomial, rational, and radical relationships, trigonometric functions, linear, quadratic, exponential, and logarithmic functions, modeling with functions, and inferences and conclusions from data. The student will need access to a graphing calculator on a regular basis. A TI-84 series graphing calculator is strongly recommended. Guided Enrollment Note: Algebra II is the recommended precollege core mathematics curriculum.

### Algebra III/Trigonometry
**MA 565X  1 Credit  Grades 11-12**

**Prerequisite:** Successful completion of Algebra II. Instruction emphasizes a more in depth look at quadratic and polynomial equations with real and complex solutions, exponential and logarithmic equations and functions, and rational expressions. Other topics include transformations, sequences and series, conics, and trigonometry. The student will need access to a graphing calculator on a regular basis. A TI-84 series graphing calculator is strongly recommended. Guided Enrollment Note: Upon successful completion of Algebra III/Trigonometry, students will have completed the equivalent of an Advanced Algebra II/Trigonometry course. Algebra III/Trigonometry is the recommended precollege core mathematics curriculum.

### Advanced Algebra II/Trigonometry
**MA 610X  1 Credit  All Grades**

**Prerequisite:** Successful completion of Geometry. Instruction emphasizes polynomial, rational, and radical relationships, trigonometric functions, linear, quadratic, exponential, and logarithmic functions, modeling with functions, extending polynomial identities to the complex numbers, and inferences and conclusions from data. The student will need access to a graphing calculator on a regular basis. A TI-84 series graphing calculator is strongly recommended. Guided Enrollment Note: The Advanced Algebra II/Trigonometry course covers topics in greater depth and breadth than Algebra II. This course is the prerequisite course for enrollment in Pre-Calculus and AP Statistics. Advanced Algebra II/Trigonometry is the recommended precollege core mathematics curriculum.

### College Algebra
**MA 620X  1 Credit  Grades 11-12**

**Prerequisite:** Successful completion of either Advanced Algebra II & Trigonometry or Algebra II or Algebra III/Trigonometry. Instruction emphasizes quadratic equations and inequalities using irrational and complex numbers, analytical geometry, application of sequence and series, matrix algebra, probability and statistics, and trigonometry. The student will need access to a graphing calculator on a regular basis. A TI-84 series graphing calculator is strongly recommended. Guided Enrollment Note: This course is designed for the student who needs to strengthen understanding of higher level advanced math concepts covered in Algebra III/Trigonometry (MA 565X) or Advanced Algebra II & Trigonometry (MA 610X). JCCC College Algebra credit is possible upon successful completion of the JCCC assessment and enrollment in JCCC’s Quick Step Plus Program. To apply for dual credit, a successful completion of the COMPASS test as outlined by JCCC or an ACT math sub score of 26 is required.

### AP Statistics
**MA 860X  1 Credit  Grades 11-12**

**Prerequisite:** Successful completion of either Advanced Algebra II/Trigonometry or Algebra II or Algebra III & Trigonometry. Instruction emphasizes collecting, analyzing, and drawing conclusions from data. The student will describe data patterns and departure from patterns, use sampling and experimentation to plan and conduct studies, explore random phenomena using probability and simulations, estimate population parameters, and test hypotheses. The student will need access to a graphing calculator on a regular basis. A TI-84 series graphing calculator is strongly recommended. Guided Enrollment Note: Students will be prepared to take the Advanced Placement Statistics Exam given during the spring semester. College credit can be earned through Advanced Placement (with a qualifying score on the AP Exam). Students may choose to take the course for College NOW credit through JCCC. To apply for dual credit, a successful completion of the COMPASS test as outlined by JCCC or an ACT math sub score of 28 is required.

### Honors Pre-Calculus
**MA 720X  1 Credit  Grades 10-11-12**

**Prerequisite:** Successful completion of Advanced Algebra II/Trigonometry. Instruction emphasizes algebraic and graphical analysis with transformations, the study of continuity, rational, logarithmic and exponential functions, trigonometric and circular functions, conics, sequences and series, limits, parametrics, and vectors. The student will need access to a graphing calculator on a regular basis. A TI-84 series graphing calculator is strongly recommended. Guided Enrollment Note: Upon completion of Pre-Calculus, students may choose to enroll in AP Calculus AB, AP Calculus BC, or AP Statistics.

### AP Calculus AB
**MA 810X  1 Credit  Grades 11-12**

**Prerequisite:** Successful completion of Honors Pre-Calculus. Instruction emphasizes functions, graphs, and limits, derivatives and their applications, properties of definite integrals and application of integrals, Fundamental Theorem of Calculus, and techniques and applications of anti-differentiation. The student will need access to a graphing calculator on a regular basis. A TI-84 series graphing calculator is strongly recommended. Guided Enrollment Note: Students will be prepared to take the Advanced Placement Calculus AB Exam given during the spring semester. Students may choose to take the course for College NOW credit through JCCC. To apply for dual credit, a successful completion of the COMPASS test as outlined by JCCC or an ACT math sub score of 28 is required.
Multivariable Calculus
MA 880  .5 Credit  Grade 12

Prerequisite: Successful completion of AP Calculus BC. This course extends the topics from AP Calculus BC, working with multiple variables and multiple dimensions. Topics include vectors in space, cylindrical and spherical coordinates, calculus of vector-valued functions, limits of functions of several variables, partial derivatives, directional derivatives and gradients, double and triple integrals, and applications to analysis of functions of several variables.

Linear Algebra
MA 870  .5 Credit  Grade 12

Prerequisite: Successful completion of AP Calculus BC. This course introduces the mathematical discipline of linear algebra from a formal, rigorous perspective. Instruction emphasizes solutions of \( n \times n \) systems of equations, determinants and eigenvalues, operations on vector spaces, and linear transformations of vector spaces. Students will be introduced to formal mathematical proof throughout the course.

Mathematics Flow Chart
Performing Arts

Students enrolled in Performing Arts classes will develop skills in performance and artistic expression. They will engage in activities that build self-confidence, interactions with others and an appreciation of the arts. Through Guided Enrollment, all high school students including 9 grade students, have the opportunity to access advanced performance groups through the audition process.

<table>
<thead>
<tr>
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<th>Course</th>
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<th>11</th>
<th>12</th>
<th>Credit</th>
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The below courses are offered at Olathe North only.

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Concert Women’s Choir

PA 410X 1 Credit  All Grades

These ensembles serve as training for basic choral skills. This course focuses on the development of vocal techniques, ear training, and sight-singing skills. Guided Enrollment Note: Performances, including those on evenings and weekends are graded activities.

Intermediate Women’s Choir

PA 420X 1 Credit  Grades 10-11-12

Intermediate Men’s Choir

PA 421X 1 Credit  Grades 10-11-12

Intermediate Mixed Choir

PA 422X 1 Credit  Grades 10-11-12

These ensembles provide continued training in basic choral skills. This course focuses on continued development of vocal technique, ear training, and sight-singing skills. Guided Enrollment Note: Audition required. Performances, including those on evenings and weekends, are graded activities.
Performing Arts

Advanced Women's Choir
PA 430X 1 Credit Grades 10-11-12

Advanced Men's Choir
PA 431X 1 Credit Grades 10-11-12

Advanced Mixed Choir
PA 432X 1 Credit Grades 10-11-12

Advanced Chamber Choir
PA 433X 1 Credit Grades 10-11-12

Membership is limited to students who demonstrate high levels of competency in musicianship and a keen interest in choral singing. Emphasis is on vocal production, musical skills, and concert performances. Guided Enrollment Note: Audition required. Performances, including those on evenings and weekends, are graded activities.

AP Music Theory PA 450X .5-1 Credit Grades 10-11-12
This course will explore the structure of music from the most fundamental laws of music theory to the more complex concepts of four-part writing, voice leading, inversions and chord construction, and form. Guided Enrollment Note: Students will be prepared to take the Advanced Placement Music Theory exam during the spring semester.

Concert Band PA 500X 1 Credit Grade 9
Prerequisite: Prior school band experience. This performance group is intended for 9th grade. There is no audition requirement. Students will participate in activities related to marching band on a limited basis during the year. Guided Enrollment Note: Throughout the year, attendance is required at performances and rehearsals, which may be scheduled before/after school, in the evening and on weekends. A uniform purchase may be required, but financial assistance will be provided to those that qualify.

Marching Band-Symphonic Band PA 510X 1 Credit Grades 10-11-12
This audition-based course is primarily open to students in 10th-12th grade that play a wind or percussion instrument. Ninth grade students may audition for placement in this ensemble. The student is involved in marching band activities for approximately the first nine weeks. The symphonic band portion of this course begins in early November and continues the remainder of the school year. Guided Enrollment Note: Audition required. All students must attend required rehearsals prior to the start of the school year. Performances for band, including those on Saturdays and school nights, are graded activities.

Marching Band-Wind Ensemble PA 520X 1 Credit Grades 10-11-12
This audition-based course is primarily open to students in 10th-12th grade that play a wind or percussion instrument at an advanced level. Ninth grade students may audition for placement in this ensemble. The student is involved in marching band activities for approximately the first nine weeks. The wind ensemble portion of this course begins in early November and provides students exposure to advanced band literature the remainder of the school year. Guided Enrollment Note: Audition required. All students must attend required rehearsals prior to the start of the school year. Performances for band, including those on Saturdays and school nights, are graded activities.

Jazz Band PA 530 .5 Credit All Grades
Prerequisite: Concurrent enrollment in Concert Band, Marching/Symphonic Band or Marching Band/Wind Ensemble. This is a select instrumental group offering the advanced instrumental student an opportunity to explore the various styles of jazz music. The course offers experience in solo and improvisational study. Guided Enrollment Note: Audition required. Performances, including those on Saturdays and school nights, are graded activities.

Dance 9/Health Dance Team PA 552X 1 Credit Grade 9
This is a select group of performers and part of the marching band during football season. Admittance is through a competitive audition held in the spring. This audition requires workshops in which the student will learn basic marching, dance, and equipment moves. The audition includes 3 days of clinic followed by the actual audition on the 4th day. The entire competitive process includes grades, attendance, and attitude along with the audition performance. This course is aimed at developing performance skills through character, coordination, rhythm, and showmanship. Guided Enrollment Note: Performances are after school, evenings, and weekends, and are graded activities. This class may receive freshman P. E. credit; and the .25 credit of Health Education.

Freshman Orchestra PA 570X 1 Credit Grade 9
Prerequisite: 8th Grade Orchestra or permission of instructor. This course is open to all 9th grade string players. Students explore a variety of music with emphasis on strengthening technical and performance skills. Guided Enrollment Note: Performances and rehearsals for orchestra, including those on Saturdays and school nights, are graded activities.

Concert Orchestra PA 580X 1 Credit Grades 10-11-12
Prerequisite: Freshman Orchestra or permission of instructor. This course is open to all 10th-12th grade string players. There is no audition required to participate in this orchestra. Students explore a variety of music with emphasis on strengthening technical and performance skills. Guided Enrollment Note: Performances and rehearsals for orchestra, including those on Saturdays and school nights, are graded activities.

Advanced Orchestra PA 590X 1 Credit Grades 10-11-12
Prerequisite: Competitive audition and school orchestra experience. This course requires an audition, and is open to 10th-12th grade string players. Students explore a variety of music with emphasis on advanced technical and performance skills and a rigorous curriculum. Guided Enrollment Note: Audition Required. Performances and rehearsals for orchestra, including those on Saturdays and school nights, are graded activities.

Dramatic Arts PA 605 .5 Credit All Grades
This is your introduction to the world of theatre. In this survey class, find out about all the areas of theatre, get the chance to perform on stage, learn what’s happening behind the scenes, and figure out where you fit in this world. This is the prerequisite for all other theatre classes. Guided Enrollment Note: Attendance at performances is a graded part of the class.

Theatre Design PA 600 .5 Credit Grades 10-11-12
Prerequisite: Technical Theatre I. This course gives you the chance to see what happens before the construction starts. Gain knowledge of what goes into theatre design including basic design elements like sight lines and color theory. Set design, costume design, lighting design and other areas will also be covered giving you the chance to produce work of your own. The use of computer technology in theatrical design will also be explored. Some out of class time may be required. Guided Enrollment Note: Attendance at performances is a graded part of the class.

Technical Theatre I PA 610 .5 Credit All Grades
Prerequisite: Dramatic Arts. This is a basic study of technical theatre production with an emphasis on construction techniques used in theatre production. Other technical aspects such as costuming, make-up, lighting, sound, publicity and properties are introduced. Projects completed in class will be in conjunction with plays produced. Some out of class time may be required. Guided Enrollment Note: Attendance at performances is a graded part of the class.
### Technical Theatre II

**Prerequisite:** Technical Theatre I. This course is the advanced study of technical theatre production with a continued emphasis on construction techniques used in theatre. There will also be further exploration of costuming, make-up, lighting, sound, publicity and properties. This class also includes an introduction to theatrical leadership. Projects completed in class will be in conjunction with plays produced. Some out of class time may be required. **Guided Enrollment Note:** Attendance at performances is a graded part of the class.

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<td>.5</td>
<td>10-11-12</td>
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### Acting I

**Prerequisite:** Dramatic Arts. Here is your chance to discover the basics of what it takes to perform on stage. Acting in its various forms is showcased throughout the semester. This class will also give you the chance to work on acting techniques and performance skills. Students will be required to memorize dialogue for presentation during this class. **Guided Enrollment Note:** Attendance at performances is a graded part of the class.

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<td>Acting I</td>
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### Acting II

**Prerequisite:** Acting I. If the experience during Acting I left you wanting more, then this is the class for you. This is our chance to increase your acting training and expand your knowledge of the theatrical world. This course takes you through audition processes, production skills, writing, analysis, and Shakespeare. Students will be required to memorize dialogue for presentation during this class. **Guided Enrollment Note:** Attendance at performances is a graded part of the class.

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<th>Course</th>
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### Repertory Theatre

**Prerequisite:** Acting II or Technical Theatre II or teacher recommendation. This is a course for the serious theatre student. Aspects of theatrical production, advanced acting techniques, and theatrical leadership will be addressed. Career exploration and preparation for theatre post high school will be covered, including auditioning skills and portfolio creation. **Guided Enrollment Note:** Audition or instructor recommendation required. Outside of school rehearsals, performances and attendance at performances is a graded part of the class.

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### Advanced Repertory Theatre

**Prerequisite:** Repertory Theatre or teacher recommendation. This is a course for the serious theatre student who would like to expand on the knowledge gained in repertory theatre. There will be further theatrical production and acting experiences throughout the year. Increased auditioning skills, portfolio creation, theatrical leadership, and exploration into post high school theatrical opportunities will be offered. **Guided Enrollment Note:** Audition or instructor recommendation required. Outside of school rehearsals, performances and attendance at performances is a graded part of the class.

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### Speech

This course is designed to meet the needs of students who want to improve their communication effectiveness and develop public speaking skills. Assignments will include persuasive, informative, and entertainment speeches, as well as group discussion, debate, and oral interpretation. Communication theory will also be discussed in conjunction with actual group and individual presentations. **Guided Enrollment Note:** This class is strongly recommended for college-bound students.

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</table>

### Forensics

This is a course for students interested in contest acting, speaking, and oral interpretation. Many opportunities for interscholastic competition will be provided. The student may participate in acting, speaking, interpretation, or a combination of these. **Guided Enrollment Note:** The student will be required to participate in interscholastic tournaments and to help host the invitational tournament. Students must also meet all KSHSAA eligibility guidelines for participation.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credit</th>
<th>Grade Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forensics</td>
<td>PA 720</td>
<td>.5</td>
<td>All Grades</td>
</tr>
</tbody>
</table>

### Novice Debate

This first semester class serves as an introduction to interscholastic high school debate in the state of Kansas. The course is designed to develop critical thinking, writing, public speaking, research, and organization skills. **Guided Enrollment Note:** This course requires student participation in extra-curricular activities. Students are required to meet all KSHSAA eligibility guidelines.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credit</th>
<th>Grade Levels</th>
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<tbody>
<tr>
<td>Novice Debate</td>
<td>PA 730</td>
<td>.5</td>
<td>Grades 10-11-12</td>
</tr>
</tbody>
</table>

### Argumentation and Debate

Argumentation and Debate is an alternative to Novice and Advanced Debate and does not require co-curricular participation at weekend tournaments outside of class. Students learn the fundamentals of argumentation, logic, and critical thinking across a variety of debate forums including public policy debate, philosophical debate, congressional debate, public forum debate, and conversational debate. Argumentation and Debate may be taken during first or second semester, and students will have the opportunity to volunteer to compete at tournaments against students from other schools.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credit</th>
<th>Grade Levels</th>
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<tbody>
<tr>
<td>Argumentation and Debate</td>
<td>PA 740</td>
<td>.5</td>
<td>Grades 10-11-12</td>
</tr>
</tbody>
</table>

### Advanced Debate

**Prerequisite:** Novice Debate. This class is designed for students who demonstrate a high level of commitment in policy debate. Emphasis is on competition and stewardship to the debate community. **Guided Enrollment Note:** Instructor recommendation required. Students are required to attend interscholastic tournaments and meet all KSHSAA eligibility guidelines.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credit</th>
<th>Grade Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Debate</td>
<td>PA 750</td>
<td>.5</td>
<td>Grades 10-11-12</td>
</tr>
</tbody>
</table>

### History of Film

This course examines the impact of the film industry on American history and culture as advances in technology have changed the film industry over time. Students will view and write about a series of required classical films, from different genres, from silent films to the present. Research, critical thinking, analyzing, and utilization of extensive writing strategies are emphasized for all assignments and projects.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credit</th>
<th>Grade Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>History of Film</td>
<td>PA 800</td>
<td>.5</td>
<td>Grades 10-11-12</td>
</tr>
</tbody>
</table>

### Electronic News

Students enrolled in eNews may choose from one of the following focus areas each semester: News Magazine, Radio Broadcast, TV News Broadcast, Digital Yearbook, Special Event Programming, or Documentary. Students will learn how today’s electronic news gathering programs are produced and distributed through both broadcast channels and Internet outlets. They will produce video and audio programs, daily, weekly and for special programming. **Guided Enrollment Note:** Out-of-Class time will be required. A lab fee may be required. Offered at Olathe North.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credit</th>
<th>Grade Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic News</td>
<td>PA 812X</td>
<td>1 Credit</td>
<td>All Grades</td>
</tr>
</tbody>
</table>

### Digital Film

Students enrolled in Digital Film will produce short video productions for multiple modes of distribution. This is a fast paced class where students will acquire the skills they need to develop TV video and Web content, writing scripts, directing and acting in video projects, shooting stories, editing and special effects. Focus areas may be Music Video, Radio Broadcast, Episodic TV, Stand alone film shorts, Special Event Programming, or Documentary. Students will learn how today's Entertainment programs are produced and distributed through both broadcast channels and Internet outlets. They will produce video and audio programs, daily, weekly and for special programming. **Guided Enrollment Note:** Out-of-Class time will be required. A lab fee may be required. Offered at Olathe North.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credit</th>
<th>Grade Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Film</td>
<td>PA 852X</td>
<td>1 Credit</td>
<td>All Grades</td>
</tr>
</tbody>
</table>

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31
Physical Education

Learning of all kinds is enhanced by fitness. Students in physical education courses will learn through study and practice about the role of physical fitness in their daily lives.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>Credit</th>
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<tbody>
<tr>
<td>PE 410</td>
<td>Physical Education Concepts</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PE 415</td>
<td>Health Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>.25</td>
</tr>
<tr>
<td>PE 510</td>
<td>Strength and Conditioning I</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PE 515</td>
<td>Strength and Conditioning II</td>
<td></td>
<td></td>
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<td>.5</td>
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<tr>
<td>PE 525</td>
<td>Physical Education Activities</td>
<td></td>
<td></td>
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<td>.5</td>
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<tr>
<td>PE 610X</td>
<td>Dance Team 9/Health</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PA 552X</td>
<td>Dance Team</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE 600X</td>
<td>Cheerleading 9/Health</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>WW 610X</td>
<td>Cheerleading</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE 530</td>
<td>Lifetime Fitness</td>
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</tbody>
</table>

The course below are part of Olathe’s 21st Century Programs. Reference page 52.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 420X</td>
<td>Sports Medicine Health &amp; Physical Education</td>
<td>1</td>
</tr>
</tbody>
</table>

Physical Education Concepts

This course provides an opportunity for students to participate in a variety of physical activities and learn the value of quality, lifetime physical fitness. Includes the use of the fitness room. Guided Enrollment Note: This course is designed to fulfill the PE/Health graduation requirement.

Health Education

This course includes the teaching and learning of concepts related to health promotion and disease prevention and how to use goal setting, decision-making, and advocacy skills to enhance health. Guided Enrollment Note: Health Education is required for graduation and is intended to be taken with Physical Education Concepts during the freshman year.

Strength and Conditioning I

This course provides the instruction of strength concepts with an emphasis on weight training.

Strength and Conditioning II

This is an advanced course that provides the instruction of strength concepts with an emphasis on weight training. Guided Enrollment Note: A passing grade in Strength and Conditioning I and instructor approval is required prior to enrollment.

Physical Education Activities

This course offers the opportunity to participate in a variety of lifetime activities which include team and individual games.

Lifetime Fitness

This course offers the opportunity to participate in lifetime physical fitness activities with a focus on personalized fitness. Use of the fitness room will be part of this class.

Dance Team 9/Health

Prerequisite: Competitive audition held in the spring. This group performs with the marching band and develops performance skills through character coordination, rhythm and showmanship. In required workshops students learn basic marching dance and equipment moves. The audition includes 3 days of clinic followed by the actual audition on the 4th day. The selection process includes grades, attendance and attitude along with the audition performance. Guided Enrollment Note: Performances are after school, evenings, and weekends, and are graded activities. PE 610X may receive freshman P.E. credit.

Cheerleading 9/Health

Prerequisite: Competitive audition held in the spring. This course is required for all cheerleaders who are selected in spring tryouts. Activities of the class involve perfecting gymnastics skills, planning cheers and pep assemblies, and completing other projects to foster school and team spirit. Guided Enrollment Note: PE 600X may receive freshman P.E. credit.
Science

Students in all science courses are encouraged to see science as approachable and applicable through coursework that develops students’ inquiry skills through laboratory experiences.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course</th>
<th>9</th>
<th>10</th>
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<th>12</th>
<th>Credit</th>
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<tbody>
<tr>
<td>SC 210X</td>
<td>Physical Science</td>
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<td>●</td>
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<td>●</td>
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<tr>
<td>SC 400X</td>
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<td>●</td>
<td>●</td>
<td>1</td>
<td>●</td>
</tr>
<tr>
<td>SC 410X</td>
<td>Biology I</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>1</td>
<td>●</td>
</tr>
<tr>
<td>SC 412X</td>
<td>Honors Biology I</td>
<td>●</td>
<td>●</td>
<td>1</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>SC 420</td>
<td>Horticulture I</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>SC 430</td>
<td>Horticulture II</td>
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<td>SC 435</td>
<td>Physical Science Investigations I (Science for the People)</td>
<td>●</td>
<td>●</td>
<td>.5</td>
<td>.5</td>
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<td>SC 440</td>
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<td>.5</td>
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<td>SC 490X</td>
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<tr>
<td>SC 510X</td>
<td>College Biology</td>
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<tr>
<td>SC 515X</td>
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<td>SC 530X</td>
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<tr>
<td>SC 540</td>
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<td>SC 545</td>
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<td>SC 630X</td>
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<td>SC 700e</td>
<td>Fundamentals of Physics</td>
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<td>SC 710X</td>
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<tr>
<td>SC 720X</td>
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<tr>
<td>SC 725X</td>
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The courses below are part of Olathe’s 21st Century Programs. Reference pages 51 and 52.

<table>
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<th>12</th>
<th>Credit</th>
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<tbody>
<tr>
<td>SC 415</td>
<td>Marine Biology</td>
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<tr>
<td>SC 455P</td>
<td>Foundations of Sports Medicine</td>
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<tr>
<td>SC 460P</td>
<td>Prevention, Treatment &amp; Rehabilitation of Athletic Injuries</td>
<td>●</td>
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<tr>
<td>SC 465P</td>
<td>Advanced Application of Sports Medicine</td>
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<tr>
<td>SC 468P</td>
<td>Wellness and Rehabilitation Clinic</td>
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<tr>
<td>SC 470X</td>
<td>Advanced Geoscience I</td>
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<td>SC 472X</td>
<td>Advanced Geoscience II</td>
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### Science

The courses below are part of Olathe's 21st Century Programs. Reference pages 51, 56 and 57.

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<tbody>
<tr>
<td>SC 480X</td>
<td>Aquatic Methods</td>
<td>●</td>
<td>●</td>
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<tr>
<td>SC 500P</td>
<td>Exploring Health Careers</td>
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<tr>
<td>SC 505P</td>
<td>Adv. Health Career (Certified Nurse Assistant)</td>
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<tr>
<td>SC 550</td>
<td>Forensic Biotechnology</td>
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<td>SC 560X</td>
<td>Advanced Biotechnology: Cellular &amp; Molecular Biology</td>
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<td>SC 570</td>
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<td>SC 580</td>
<td>Biotechnology/Life Science Senior Project</td>
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<td>SC 650X</td>
<td>Aerospace+Engineering Chemistry</td>
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<tr>
<td>SC 660P</td>
<td>Materials Science &amp; Engineering</td>
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<td>SC 750X</td>
<td>Aerospace+Engineering Physics</td>
<td>●</td>
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<tr>
<td>SC 780P</td>
<td>Aerospace+Engineering Capstone</td>
<td>●</td>
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**Physical Science**

<table>
<thead>
<tr>
<th>SC 210X</th>
<th>1 Credit</th>
<th>Grades 10-11-12</th>
</tr>
</thead>
</table>

This course explores basic concepts of chemistry and physics by emphasizing problem solving in laboratory investigations. Students utilize appropriate technology to collect and analyze data in the study of matter, chemical change, energy, motion electricity, magnetism, sound and light.

**Applied Biology**

<table>
<thead>
<tr>
<th>SC 400X</th>
<th>1 Credit</th>
<th>All Grades</th>
</tr>
</thead>
</table>

This is a year course emphasizing laboratory investigations of fundamental biology topics. This course is intended for students who need additional support in reading and learning strategies. **Guided Enrollment Note:** Enrollment requires teacher recommendation.

**Biology I**

<table>
<thead>
<tr>
<th>SC 410X</th>
<th>1 Credit</th>
<th>All Grades</th>
</tr>
</thead>
</table>

Biology is a lab-oriented course where inquiry problem-solving skills are practiced and refined. The emphasis of the course is on the molecular level with such topics as biochemistry, genetics, and cellular processes. The diversity and evolution of organisms and ecology concepts are included throughout the curriculum.

**Honors Biology I**

<table>
<thead>
<tr>
<th>SC 412X</th>
<th>1 Credit</th>
<th>Grade 9-10</th>
</tr>
</thead>
</table>

Honors Biology is an inquiry-based lab course where reading, writing, and problem solving skills are integrated throughout the curriculum, culminating with a research project. The topics covered in this course are the same as in Biology I but at a faster pace and in greater detail. **Guided Enrollment Note:** For this more challenging course, significant work outside of the class is to be expected.

**Horticulture I**

<table>
<thead>
<tr>
<th>SC 420</th>
<th>.5 Credit</th>
<th>Grades 10-11-12</th>
</tr>
</thead>
</table>

**Prerequisite:** Biology I. This course is designed for the student who is interested in plant studies. Students will be exposed to topics concerning the growth and care of greenhouse plants, woody plants, lawns, and those plants grown for food with an emphasis on environmentally safe methods of pest control. Topics which are project based include: plant propagation, hydroponics, soil testing, gardening, and landscape, pest management, conservation, and composting.

**Horticulture II**

<table>
<thead>
<tr>
<th>SC 430</th>
<th>.5 Credit</th>
<th>Grades 10-11-12</th>
</tr>
</thead>
</table>

**Prerequisite:** Horticulture I. This course is designed for the student who is interested in advanced plant studies. The topics covered in the introductory course will be pursued in greater depth with an emphasis on individualized projects. Students will learn from guest speakers who will present topics in various areas of specialty and from several field trip opportunities.

**Physical Science Investigations I (Science for the People)**

<table>
<thead>
<tr>
<th>SC 435</th>
<th>.5 Credit</th>
<th>Grades 11-12</th>
</tr>
</thead>
</table>

**Prerequisites:** Biology I. This course includes topics of study that apply to real life concepts learned in Physical Science and Biology. Topics include: physics of motion, environmental science, applications of GPS technology, science for jurors, and food chemistry.

**Astronomy**

<table>
<thead>
<tr>
<th>SC 440</th>
<th>.5 Credit</th>
<th>All Grades</th>
</tr>
</thead>
</table>

This semester course is a survey of the study of the universe. The purpose of the course is to introduce students to the various fields of study under the main heading of astronomy and to acquaint the student with some of the methods by which astronomers gather information about the universe. Topics of study may include constellations, stars, planets, the sun, the seasons, the moon and its phases, among others. Students may be expected to make night sky observations during the course of the semester. **Guided Enrollment Note:** This course is a choice for endorsement in the Geosciences program at ONHS.

**AP Environmental Science**

<table>
<thead>
<tr>
<th>SC 480X</th>
<th>1 Credit</th>
<th>Grades 11-12</th>
</tr>
</thead>
</table>

**Prerequisite:** Biology I and General Chemistry. This lab and field based course provides students with the scientific principles, concepts and methodologies required to understand the interrelationships in the natural world, to identify and analyze environmental problems, both natural and human-caused, to evaluate the relative risks associated with these problems, and to examine alternative solutions for reducing and/or preventing them. This is an interdisciplinary course which includes concepts from many disciplines of science. **Guided Enrollment Note:** Students taking this course are urged to take the AP Environmental Science exam in the spring.
Prerequisite: General Chemistry. This course is tailored for students planning to pursue a career in a science-related field or for students who desire to complete their college requirement for a natural science credit. The course is structured around contemporary modern biological science concepts and biotechnological principles that are on the forefront of scientific research. Guided Enrollment Note: This class is an advanced course in which the student may acquire dual credit through JCCC/College Now.

AP Biology SC 515X 1 Credit Grades 11-12
Prerequisite: General Chemistry. This Advanced Placement course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Students in this course will build a conceptual framework, the factual knowledge, and analytical skills to deal critically with the rapidly changing science of biology and to appreciate science as a process. Guided Enrollment Note: Concurrent or previous enrollment in Anatomy and Physiology is recommended. Students taking AP Biology are urged to take the AP exam in the spring. Students may acquire dual credit through JCCC/College Now.

Student Naturalist SC 520X 1 Credit Grades 11-12
Prerequisite: Biology I. The student will participate in advanced studies in ecology, natural history, and field biology. In addition, students will organize and present small group workshops for groups of district elementary students. Each quarter, students will also participate in an environmentally-based community service project. Guided Enrollment Note: This course is a requirement for endorsement in the Geosciences program at ONHS. This course is a choice for endorsement in the Geosciences program at ONHS.

Anatomy & Physiology SC 530X 1 Credit Grades 11-12
Prerequisite: Biology I. This class is designed for the college bound student who is considering a career in a professional medical field. The course offers an in-depth study of higher vertebrate anatomy using human models and diagrams. Insight into the functions of human systems is gained through laboratory study of living tissues, dissection, and physiology instrumentation. Guided Enrollment Note: Concurrent or previous enrollment in General Chemistry recommended.

Genetics and Biotechnology I SC 540 .5 Credit Grades 11-12
Prerequisite: Successful completion of General Chemistry is recommended. This course emphasizes the fundamental aspects of genetics. Topics surveyed include the molecular basis of genetics, human inheritance patterns, cell reproduction, chromosomal abnormalities, fundamentals of bioethics, pedigree construction, examination of mitochondrial and nuclear DNA and human genetic disorders. Students will have an opportunity to visit a variety of clinical facilities such as research labs and developmental learning facilities. Guided Enrollment Note: This course is offered only at OSHS. This course should not be confused with 21st Century Programs offered only at Olathe North.

Genetics and Biotechnology II SC 545 .5 Credit Grades 11-12
Prerequisite: Genetics and Biotechnology I. This is a course which emphasizes the clinical aspects of genetics. Topics surveyed during second semester will include human embryological development and accompanying developmental errors, applications of mitochondrial DNA, Human Genome Project, genetic diagnostic procedures, gene therapies, and recent developing ideas in biotechnology. Students are to participate in a mentorship. Guided Enrollment Note: This course is offered only at OSHS. This course should not be confused with 21st Century Programs offered only at Olathe North.

General Chemistry SC 610X 1 Credit Grades 10-11-12
Prerequisite: Biology I. Chemistry is the systematic study of properties and changes in matter. This course includes the particles that compose matter and how elements and compounds interact. Conceptual understanding is built through visualization, laboratory observation, and mathematical representation. Guided Enrollment Note: Concurrent enrollment in Geometry or higher math is recommended.

Honors Chemistry SC 620X 1 Credit Grades 10-11-12
Prerequisite: Biology I. Honors chemistry is a comprehensive introduction to the properties and interactions in matter. Course content includes topics from general chemistry with additional concepts, in greater detail with accelerated pace. Guided Enrollment Note: Concurrent enrollment in Advanced Algebra II/Trig or higher math is strongly recommended.

College Chemistry SC 630X 1 Credit Grades 11-12
Prerequisite: General Chemistry or instructor recommendation. This course is tailored for students planning to pursue a career or further study in a science-related field and for those who desire to complete their college requirement for a physical science credit. This is an in-depth study of inorganic chemistry for the college bound student. Topics and lab work cover material based on the first semester of college chemistry. Lab work is utilized to develop basic concepts that will be covered during classroom discussions. Guided Enrollment Note: This is an advanced chemistry course in which the student may acquire dual credit through JCCC/College Now. To apply for dual credit, a COMPASS college algebra score of 46 or an ACT math sub-score of 26 is required.

AP Chemistry SC 635X 1 Credit Grades 11-12
Prerequisites: General Chemistry or College Chemistry. This course is designed to be the equivalent of the general Chemistry I and Chemistry II course usually taken during the first college year. This course emphasizes chemical calculations and the mathematical formulation of principles and a variety of laboratory experiences. Guided Enrollment Note: Physics I and Advanced Algebra II/Trigonometry are recommended prior to AP Chemistry. Students taking AP Chemistry are urged to take the AP exam in the spring. This is an advanced chemistry course in which the student may acquire dual credit through JCCC/College Now. To apply for dual credit, a COMPASS college algebra score of 46 or an ACT math sub-score of 26 is required.

Physics I SC 710X 1 Credit Grades 10-11-12
Prerequisite: Algebra II. This course places emphasis on learning how to develop concepts and relate them to one another through laboratory experiences. Major emphasis is on the fields of measurement, kinematics (motion), dynamics (mechanical and gravitational forces), momentum, and kinetic and potential energy. Guided Enrollment Note: Advanced Algebra II & Trigonometry is recommended prior to or concurrent with Physics I.

College Physics SC 720X 1 Credit Grades 11-12
Prerequisites: Physics I, Advanced Algebra II & Trigonometry. This course is intended to fill out and extend the topics covered in Physics I. In addition to reviewing mechanics in greater depth, the course will also investigate the physical properties of materials, waves, interference and its applications, A. C. theory and devices, and give an introduction to relativity and quantum mechanics. The uses and applications of elementary calculus will also be examined. Guided Enrollment Note: This is an advanced physics course in which the student may acquire dual credit through JCCC/College Now. To apply for dual credit a compass college algebra score of 46 or college trig of 1+ or an ACT math sub-score of 28 is required.
Science

AP Physics B  SC 725X  1 Credit  Grade 12

Prerequisites: Physics I, Advanced Algebra II & Trigonometry. This course is designed to be the equivalent of the general Physics I and Physics II course usually taken during the first college year. This course includes both classical and modern physics, emphasizing mathematical formulation of principles and a variety of laboratory experiences. Guided Enrollment Note: Students taking AP Physics B are urged to take the AP exam in the spring.

Fundamentals of Physics  SC 700e  1 Credit  Grades 11-12

Prerequisites: Physical Science. This course is offered only online and is designed for students who want to meet Regents Qualified Admissions physics requirement using Physical Science 1.0 credits and Fundamentals of Physics .5 credit. Students will study topics in energy, waves, circuits, and motion. A lab kit will be provided containing the necessary items to complete lab work which is incorporated into the course.
## Social Science

As students learn about themselves and their responsibilities, they discover what it means to be a productive citizen of the world.

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The course below is part of Olathe’s 21st Century Programs. Reference page 52.

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Courses are pending State Board of Education approval spring, 2013, for social studies credit.
Modern World History  
**SS 210X**  1 Credit  Grade 9  
This is a required course for graduation. This course is a survey of selected topics in world history from the Renaissance into the 20th century with a focus on history, economics, government, and geography.

Pre-AP Modern World History  
**SS 215X**  1 Credit  Grade 9  
This course is open to students who desire a challenge in their study of history. This course is a survey of selected topics in world history from the Renaissance into the 20th century with a focus on history, economics, government, and geography. Activities will be designed to prepare students for success in various social science AP-style courses.

World Geography  
**SS 440 .5 Credit**  All Grades  
This course emphasizes man’s relationship to his physical environment. Special emphasis is placed on studying physical geography, cultures, and problems of the regions of the world. Activities include map studies, films, multi-media programs, and special classroom activities.

Pre-AP World Geography  
**SS 415 .5 Credit**  Grades 10-11-12  
This course is designed to introduce students with many topics related to World Geography with specific emphasis on the geopolitical and cultural aspects of: The Middle East, Africa, Asia, Europe, The Pacific Rim and the Western Hemisphere. This course will explore geographic areas with more detail and with more speed and rigor than regular geography courses. Resources include: textbooks, audio/visual aids, music, essays, research/writing projects, art projects, document analysis etc. Activities will be designed to prepare students for success in various social science AP-style courses.

World History-Ancient Civilizations  
**SS 420 .5 Credit**  All Grades  
This course is a survey of world history from the beginnings of human civilization through the 14th century with a focus on history, economics, government, and geography.

World History-Regional Studies  
**SS 430 .5 Credit**  All Grades  
This course is a survey of world history with a brief review of ancient history, but focusing on the 15th century to present times in the areas of Africa, Asia, the Middle East, and Latin America.

Contemporary Issues  
**SS 440 .5 Credit**  Grades 11-12  
This course allows students to understand, analyze, assess, and appraise current events and historical contexts. Students will apply the lessons of the past in comprehending the events of the present day.

United States History  
**SS 510X**  1 Credit  Grades 11-12  
This is a required course for graduation. This course provides a chronological and/or thematic treatment of American history from the late nineteenth century to the present.

AP/Honors United States History  
**SS 515X**  1 Credit  Grades 11-12  
This course meets the United States History graduation requirement. This course provides a chronological narrative survey of American history from the colonial period to the present. Guided Enrollment Note: This course is an open enrollment course. This course prepares students for the AP test administered in the spring. College credit is available through College Now.

Sociology  
**SS 620 .5 Credit**  All Grades  
The purpose of this class is to enable students to achieve a better understanding of the individual as a part of a group setting. This class will emphasize the individual’s relationship to his culture and cross-cultural comparisons. The course will include contemporary social problems.

Introduction to Psychology  
**SS 630 .5 Credit**  Grades 10-11-12  
This course includes the introduction of terminology, methodology, and experimentation in the field of psychology. The units emphasized include approaches and theories, sensation and perception, principals of learning, personality, and psychological disorders. Guided enrollment note: This course is NOT a pre-requisite for AP Psychology.

AP Psychology  
**SS 640 1 Credit**  Grades 11-12  
This is an academically rigorous course designed to prepare students for the AP Psychology exam. Units emphasized include approaches and theories, sensation and perception, principals of learning, personality and psychological disorder, human growth and development, neurobiology, cognition and memory learning, states of consciousness, experimentation, social psychology, motivation and emotion. Guided enrollment note: College credit is available through College Now. To apply for dual credit, a COMPASS reading score of 80 or an ACT reading sub-score of 19 is required. A research-based project will be required. This course prepares students to take the AP Psychology exam. Introduction to Psychology is NOT a pre-requisite for this course.

International Relations  
**SS 660 .5 Credit**  Grades 11-12  
This course introduces students to international relations. Students will examine historic and current world political and economic issues using models of international relations theory and will analyze the roles of the various “actors” on the world stage of international relations and diplomacy.

Cross-Cultural Connections  
**SS 665 .5 Credit**  All Grades  
This course provides students with the working knowledge of history, civics, geography and economics to understand the attitudes and skills they need as global citizen in their own community and around the world. Students will also explore the history and cultural diversity of the Kansas City Metropolitan area.
### United States Government

**SS 710**  
.5 Credit  
Grade 12  

This is a required course for graduation. This course treats the origins, development, organizations, power, and actual working of American government and emphasizes the change and developments in recent years at the local, state, and national levels.

### AP United States Government

**SS 715**  
.5 Credit  
Grade 12  

This course meets the American Government graduation requirement. This course stresses the same goals and objectives and covers the same areas as American Government. This course is an open enrollment course. **Guided Enrollment Note:** College credit is available through the Advanced Placement exam administered during the spring semester as well as through College Now.

### AP European History

**SS 460X**  
1 Credit  
Grades 10-11-12  

This is an academically rigorous course designed to prepare students for the AP European History exam. This class will cover the development of western civilization in Europe from the Renaissance through the Cold War. **Guided Enrollment Note:** This course prepares students for the spring AP exam.

### Sports Psychology

**SS 645**  
.5 Credit  
Grades 10-11-12  

This course is an introduction to sport and exercise psychology. Students learn about the history of and careers in the area of sports psychology. Topics include behavioral psychology, its principles and applications and practical application of sports psychology as it relates to athletes, coaches, and parents. Students investigate the different social issues that go along with sports psychology, such as gender differences, diversity issues and ethical concerns. **Guided Enrollment Note:** This course is a choice within a program of studies to earn an endorsement in the Sports Medicine/Athletic Training 21st Century Program. This course is offered at Olathe North.
## Special Courses

Course information and enrollment through counselor guidance.

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Technology Education

This program uses many activities to study pre-engineering, pre-architecture, construction, communication, manufacturing, transportation, and aerospace technology.

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</table>

The courses below are part of Olathe’s 21st Century Programs. Reference pages 45 and 55.

### Introduction to Industrial Technology

**IT 405P** .5 Credit All Grades

An introductory level course designed to provide students with the basic skills necessary to understand the construction, manufacturing, transportation and communication areas.

### Pre-Engineering Drawing/CAD I

**IT 410P** .5 Credit All Grades

This is the introductory drafting technology class. Students learn basic fundamentals of manual engineering drawing and computer-aided drafting (CAD). Several forms of graphic and electronic communication are explored. Students are exposed to graphic design, problem-solving, research and design, and model construction.

### Engineering Drawing/CAD II

**IT 420P** .5 Credit All Grades

**Prerequisite: CAD I.** In this course technical types of drawings used in industry are explored. Students are presented with problem-solving situations involving the various types of communication systems worked with in CAD I.

### Architectural Design Drawing/CAD III

**IT 430P** .5 Credit Grades 11-12

**Prerequisite: CAD II or consent of instructor.** This course provides a study of the fundamental principles of structural design common to buildings, bridges, homes, and other structural frameworks. Students may design homes, construct models, experience structural testing, and develop design presentations.

### Advanced Engineering Drawing /CAD IV

**IT 440P** .5 Credit Grades 11-12

**Prerequisite: CAD III or consent of instructor.** Students in their fourth semester may select to pursue advanced study in any of the areas of drawing or CAD technology. Projects are developed between the instructor and the student. This course is recommended for any student interested in a career in one of the many related fields of engineering drawing, architectural drawing or CAD technology.

### Production Technology

**IT 610P** .5 Credit All Grades

This course includes project-oriented activities related to the construction industry, manufacturing, materials, and their processes. Activities include: team problem solving, individual projects, and introductory manufacturing processes. Students work with metals, woods, and plastics: in mass production and individual design activities.

**Guided Enrollment Note:** A lab fee is required for materials used.

### Advanced Production Technology

**IT 620P** .5 Credit Grades 10-11-12

**Prerequisite: Production Technology** Students study various technologies used to process and transform materials including skills common to all manufacturing occupations such as blueprint reading, safety, hand and power tools, bonding, forming, and computer automations.

**Guided Enrollment Note:** A lab fee is required for materials used.

### Communication Technology

**IT 630P** .5 Credit All Grades

This course focuses on the basic concepts of communication technology. Students integrate a variety of audio/video communications with an emphasis on: broadcasting, video production and music production.

**Guided Enrollment Note:** Out-of-class time is required. A lab fee may be required.

### Advanced Communication Technology

**IT 640P** .5 Credit Grades 11-12

**Prerequisite: Communication Technology and instructor recommendation.** This course builds on knowledge gained in Communication Technology. Emphasis is the production of public service announcements, features, documentaries, broadcasting, radio disc-jockey, and special event or highlight videos.

**Guided Enrollment Note:** Out-of-class time is required. A lab fee may be required.
Technical Education Center-Based

Center-based career and technical education courses are offered at six Olathe sites: Olathe North, Olathe Northwest, Olathe South, Millcreek Center (OATC), Harmony and Heartland. Technical education credit may be applied toward high school graduation and counts as a practical and consumer studies credit. These courses provide students with an opportunity to explore career interests and become college and career ready. Students gain knowledge and experience to meet requirements of many technology, health, business, and Family and Consumer Sciences related fields. Specific questions regarding program information, enrollment procedures, and the application process should be directed to your high school career counselor or the Millcreek Center (OATC) principal (780-7026).

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Graduation Requirement
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**Early Childhood Learning Centers**

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Technical Education

Culinary Arts I  VE 341X
Culinary Arts I/Baking & Pastry II  VE 341P-344P
3 Credits  Grades 11-12

Culinary Arts I
This structured Culinary Arts program develops high level skills and competence demanded in the food service industry. Students have a monthly opportunity to work in the Culinary Restaurant. This is a sequential program that prepares students for occupations and higher education programs of study related to culinary arts and hospitality industry. Guided Enrollment Note: Baking and Food Science and/or Culinary Preparation I strongly recommended as prerequisite classes.

Culinary Arts II  VE 370X
Culinary Arts II/Event Plan & Mgmt/Culinary Applications  VE 370P-375P
3 Credits  Grades 11-12

Culinary Arts II
This in-house training program is for the student who has an interest in the culinary industry. Areas of interest include teamwork, decision making process, personal career skills, goal setting, leadership, business etiquette, conflict resolution, professional dress, communication, workplace ethics, career education, resume writing, finding and applying for a job, and interview preparation. The students have a monthly opportunity to manage the Culinary Restaurant. Upon completion of this course, the student will be prepared for supervisory positions in the hospitality industry.

Construction Trades I  VE 440X
Carpentry I/Remodel & Maintenance/Cabinetmaking & Furniture Design I/Plumbing Technology  VE 440P-443P
3 Credits  Grades 11-12

A comprehensive course designed to teach students the knowledge and basic skills required to build, remodel and maintain a home. In this program students will participate in the construction of a single family residence.

A course designed to instruct students in the basic skills and knowledge required for cabinetmaking and to exposure students to the basic installation and maintenance of residential mechanical systems, emphasizing on plumbing systems. In this program students will participate in the construction of a single family residence.

Construction Trades II  VE 445X
3 Credits  Grade 12

Prerequisite: Construction Trades I. An advanced comprehensive home building course focused on all aspects of residential carpentry and exposure to the basic installation and maintenance of residential mechanical systems, emphasizing on electrical systems. In this program students will participate in the construction of a single family residence.

An advanced course providing students with skills and experience in cabinetmaking, and installation, residential trim work and student exposure to the basic installation and maintenance of residential mechanical systems, emphasizing on HVAC systems. In this program students will participate in the construction of a single family residence.

Automotive Chassis and Driveline  VE 600X
Engine Mechanical Repair/Steering & Suspension/Brakes/Adv Brakes/Engine Performance I  VE 600P-605P
3 Credits  Grades 11-12

Automotive Chassis an Driveline includes classroom and lab activities using state of the art equipment in the following areas: brakes, suspension, steering, engine repair, drivelines and HVAC systems. Brakes and Suspension and Steering are NATEF approved programs and prepare the student for entry level jobs, post secondary training including but not limited to junior college, four year universities and technical schools. This class also articulates with JCCC, allowing the student to receive up to nine hours of automotive training with enrollment at the college as well as completion of all approved requirements.

Auto Electrical and Drivability  VE 607X
Fundamentals of Electronic/Electrical Systems/Advanced Electronics/Electrical Systems/Engine Performance II  VE 607P-612P
3 Credits  Grades 11-12

Automotive Electrical and Drivability allows students to develop understanding of all electrical and emission systems used in the modern automobile. Areas of emphasis include: batteries, starters charging systems, lighting, computer-controlled engine systems, fuel injection, ignition, and future trends in the automotive system. This program is NATEF approved and prepares the student for entry level jobs, post-secondary training including but not limited to Junior college, four-year university and technical schools. This class also articulates with JCCC, allowing the student to receive up to nine hours of automotive training with enrollment at the college as well as completion of all approved requirements. Guided Enrollment Note: Successful completion of Algebra I or Chassis and Drivelines is recommended before enrolling in Automotive Electrical and Drivability. Students have the opportunity for job shadow activities and the opportunity to compete in state and national contests through Skills/USA and Ford/AAA. An articulation agreement with JCCC allows for the student to receive credit for completion of the program within the guidelines established.

Welding Technology I  VE 461X
Manufacturing Process/Welding Process/Cabinets and Mass Prod I  VE 461P-467P
3 Credits  Grades 11-12

A comprehensive course design to instruct students in various methods used to process and transform materials. Includes skills common to all manufacturing occupations such as blueprint reading, safety, hand & power tools, bonding, casting, forming, computer automations, LEAN manufacturing, soldering & metallurgy.

A comprehensive course designed to provide students with knowledge and skills in basic welding theories and terminology, to perform Oxy-fuel and Arc Welding activities in the F & H positions, and to perform Non-destructive testing activities.

A comprehensive course designed to instruct students in the knowledge and skills required for fabricating products using a variety of materials (wood, plastic, metal &/or composites). Guided Enrollment Note: These courses run concurrently: Manufacturing Processes, Production Welding Processes I, Mass Production. These three courses are Welding Tech 1.
Welding Technology II VE 468X
Mass Prod II/Prod Welding Prcess I/R&D for Manufacturing VE 468P-473P 3 Credits Grade 12

Prerequisite: Welding Technology I. An application level course designed to instruct students in the knowledge and skills required for fabricating products using a variety of materials (wood, plastic, metal &/or composites).
An application level course designed to instruct students in the knowledge and skills needed for solving fabrication problems, to weld joints in the V & OH positions, and perform Plasma cutting.
An advanced level course that provides students with work-based experience, supported by classroom attendance and discussion, within their area of interest/study. Guided Enrollment Note: These courses run concurrently: Mass Production II, Production Welding Processes II, Research & Design for Manufacturing. These three courses are Welding Tech 2.

Automotive Collision Technology I VE 620X
Auto Collision I/Auto Refinishing I/ Mobile HVAC/Research and Emerging Trends in Transportation/Custom Refinishing and Application A
VE 620P-624P 3 Credits Grades 11-12

Automotive Collision Technology II VE 625X
Auto Collision II/Auto Refinishing II/Refinishing and Application B/
Fundamentals of Electronic/Electrical System
VE 625P-606P 3 Credits Grades 11-12

Auto Collision Technology includes classroom instruction with hands-on experience to prepare students for entry-level employment in an auto collision repair field. Students gain knowledge of the materials and products used by manufacturers in order to assess damage and make appropriate repairs. Students reconstruct, repair and replace vehicle body parts, develop an understanding of metal work fundamentals, learn unibody and structure repair, replace glass and hardware, and paint and restore vehicles to their original condition. First-year students will cover custom fabrication welding, hand and power tools, body shop materials, minor body repair, painting equipment, and minor automobile refinishing. The course work for a second year student includes mig electric welding, power tools, estimating, major body repairs, major refinishing, and auto body trim. Guided Enrollment Note: Students have the opportunity to compete in state and national contests through SkillsUSA-VICA. An articulation agreement with Johnson County Community College and KCKCC is in place allowing students to receive credit for successful completion of this program.

Exploring Health Careers and Adv. Health Careers (Certified Nurse Assistant) SC 500P .5 Credit Grades 10-11-12
SC 505P 1 Credit Grades 11-12

1 Semester. See course descriptions for SC 500P and SC 505P on page 50. Guided Enrollment Note: Seniors have priority for enrollment in SC 505P.

Early Childhood Career Opportunities

The Early Childhood Career Opportunities Program (ECCO) is located at Olathe’s two early childhood centers. Courses provide students with an opportunity to explore career interests and prepare for work or college. For specific questions regarding program information, please contact your high school counselor or call 780-7410.

ECCO I VE 411X
Orientation/Foundations to Early Childhood Development VE 411P/412P 2 Credits Grades 11-12

Early Childhood Career Opportunities I (ECCO I) is for the student who is interested in learning about young children and who wishes to work with preschoolers in an education setting. Students are introduced to careers in the field of early childhood education. Three days of the week, high school students assist with planning and implementing learning activities with children in the preschool classroom. The other two days, high school students plan and prepare for the preschooler and study related topics such as: growth and development, health and safety, working with children with special needs, and child care and education career opportunities. Guided Enrollment Note: This course is taught at Heartland and Harmony Early Childhood Centers.

ECCO II VE 421X
Functions/Applications in Early Childhood Development VE 421P/422P 2 Credits Grade 12

Prerequisite: ECCO I. ECCO II is designed for seniors who completed ECCO I and who want to explore additional aspects of the early childhood profession. In ECCO II, students apply the information they learned in ECCO I in various preschool and early primary classrooms within the Olathe District. Students develop a professional resume and portfolio. Workshops and seminars on effective teaching strategies, child development, and other aspects of effective instruction are included in the coursework. Guided Enrollment Note: Individual transportation required.
Environmental Design

Environmental Design (ENVD) introduces students to a wide variety of design fields including architecture, industrial, interior, landscape, and graphic design and engineering as well as enhancing verbal and graphic communication skills. Students in this program have the opportunity to earn an ENVD endorsement and to participate in shadowships.

ENVD students will have the skills and potential to be the leaders in designing the future environment in which we work, live and play.

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Introduction to the Built Environment

This exploratory course examines a variety of aspects that encompass the designed environment in which we work, live and play. Students will observe skills designers use to create the products and places people interact with daily. This class includes “The Design Process” observational drawing, introductory CAD, and various other graphic communication methods and technology. Students survey various design fields and create fundamental projects that incorporate many design careers. This course serves as a prologue to the ENVD Graphic Communication/Drawing & Design courses. Guided Enrollment Note: This class is taught by both IT and AR instructors.

Built Environment Drawing and Design

The focus of this course is on built environment education through drawing and the use of elements and principals of design. This class includes drawing from observation, 2-D and 3-D design, and sketchbook and portfolio development. Visual perception skills will be demonstrated by merging drawing and design. Guided Enrollment Note: This course is required for an endorsement. Course taught concurrently with IT 550X.

Graphic and Communications Methods

This course focuses on layout, composition and presentation methods with emphasis placed on architecture and manufactured projects. CAD software is used to produce presentation drawings such as orthographic, isometric, auxiliary views and perspectives. Students produce a presentation of a variety of subjects including: buildings, bridges, land development, functional objects, abstract or concept vehicles. Guided Enrollment Note: This course is required for an endorsement. Course taught concurrently with AR 750X.
OlaTHE LEADERSHIP

Able leadership is a necessity to meet the challenges of the 21st century. Olathe Leadership Studies incorporates existing curriculum and creates new and innovative courses focused on leadership theory, leadership development and application of leadership. Olathe Leadership Studies relies on two important components: the curricular component and the experiential component. The curricular component consists of 5 credits: required courses of Leadership I-IV and selected courses from the areas of Social Science, Business and Communications.

ENDORSEMENT LEVELS are based upon coursework completion, leadership demonstration and school and community service. Presidential Service Award recognition is necessary to earn the highest endorsement.

Leadership I  YA 500  .5 Credit  Grades 9-10
The purpose of this class is to develop the leadership skills in each student. The students will read and study “The 7 Habits of Highly Effective Teens” by Sean Covey. The students will engage in community service projects in the community and in the school.
Guided Enrollment Note: This course is part of the Olathe Leadership Studies endorsement program but is open to Olathe East freshmen and sophomore students. Acceptance into the program upon approval of the Leadership Executive Team.

Leadership II  YA 510  .5 Credit  Grades 10-11
Prerequisite: Successful completion of Leadership I; Program participant must gain approval from Olathe Leadership Studies staff to enroll. The purpose of this course is to introduce the students to basic types, models and styles of leadership. The students will identify communication skills necessary for effective leadership. They will further develop leadership roles and responsibilities in group settings. The students will develop an awareness of gender, ethnic and multicultural needs of the community. The students will also engage in service learning projects designed to enhance skills and promote understanding of school and community needs. Guided Enrollment Note: This course is part of the Olathe Leadership Studies endorsement program. Acceptance into the program upon approval of the Leadership Executive Team.

Leadership III  YA 515  .5 Credit  Grades 11-12
Prerequisite: Successful completion of Leadership I & II; Program participant must 1) have successfully completed two leadership roles and 2) gain approval from Olathe Leadership Studies staff to enroll. The purpose of this course is to synthesize knowledge from previous courses to further develop leadership roles and responsibilities in community settings. Students will engage in community needs assessments and participate in practical service learning opportunities. Guided Enrollment Note: This course is part of the Olathe Leadership Studies endorsement program.

Leadership IV  YA 520  .5 Credit  Grade 12
Prerequisite: Successful completion of Leadership I, II, III; Program participants must 1) have successfully completed three leadership roles and 2) gain approval from Olathe Leadership Studies staff to enroll. The purpose of this course is to synthesize learning from previous courses and utilize this knowledge in an individual project. Semester-long projects will be proposed to and approved by a school/community panel. Successful completion of course requirements and panel approval are basis for endorsement consideration. Guided Enrollment Note: This course is part of the Olathe Leadership Studies endorsement program.
Animal Health
Study all areas of animal health through innovative laboratories field experiences and interaction with animal health professionals. Students will develop an extensive science knowledge through a unique partnership with K-State University.

Life Sciences
From ground-breaking research to hands-on patient care, this program offers opportunities for students with a wide range of interests…
- Biotechnology: Working with DNA and proteins in a laboratory setting
- Biomedical Studies: Combining biotechnology skills with student interest in research and medical careers
- Health Careers: Combining classroom and clinical instruction for basic care of patients in long-term facilities. This focus may also be taken as an independent course of study to prepare for the Kansas Certified Nurse Assistant test

Distinguished Scholar
Seeking highly academically talented students in several areas: This program offers:
- Individualized studies under the direction of mentor teachers to provide academic experiences not typically available
- Participation in unique observations, internships and travel experiences
- Opportunities for academic scholarships
Total program enrollment is limited and is based on successfully meeting program requirements including teacher recommendation, interview, GPA, and test scores.

Geosciences
Explore and experience the Earth Sciences in areas such as marine biology, oceanography, astronomy, meteorology, paleontology, and environmental studies; including self-directed research opportunities.
- Use facilities that include over 2000 gallons of aquaria with a diverse collection of organisms for study, telescopes, a weather station connected to KCTV-5’s meteorology center, and a triceratops donated through the Olathe High School Alumni Class of 1971.
- Become skilled in a variety of science tools including Geographic Information Systems and Global Positioning Systems.
- Do project-based research both in the lab, during field trips and on optional summer field experiences.

Sports Medicine and Athletic Training
Learn skills that not only provide lifelong health, wellness and stress management but lead to a variety of career opportunities…
- Extensive study in prevention and treatment of athletic injuries
- Certification in CPR, AED, First Aid and Sports Safety
- Extended learning opportunities with sports medicine professionals in the work place
- CNA-Certified Nursing Aide (JCCC 5 college credits)
- EMS-Emergency Medical Services (JCCC 5 college credits)
## Transfer Programs

### Animal Health
- **SC 570** Lab Tech (.5)  
- **SC 520X** Student Naturalist (.5)  
- **SC 415** Marine Biology (.5)  
- **SC 550** Forensic Biotechnology (.5)  
- **SC 560X** Advanced Biotechnology: Cellular & Molecular (2)  
- **SC 580** Biotechnology/Life Science Senior Project (.5-2)

### Life Sciences
- **SC 500P** Exploring Health Careers (.5)  
- **SC 505P** Adv. Health Careers (Certified Nurse Assistant) (1)  
- **SC 550** Forensic Biotechnology (.5)  
- **SC 560X** Advanced Biotechnology: Cellular & Molecular (2)  
- **SC 570** Lab Tech (.5)  
- **SC 580** Biotechnology/Life Science Senior Project (.5-2)

### Distinguished Scholar
- **WW 240X** DS Freshmen Expedition (1)  
- **WW 250-267** Symposium (1)  

### Geosciences
- **SC 415** Marine Biology (.5)  
- **SC 450** Physical Oceanography (.5)  
- **SC 470X** Advanced Geoscience I (.5)  
- **SC 472X** Advanced Geoscience II (.5)  
- **SC 480X** Aquatic Methods (.5)  
- **SC 570** Lab Tech (.5)

### Sports Medicine/Athletic Training
- **SC 45P** Foundations of Sports Medicine (Sports Med I) (.5)  
- **SC 460P** Prevention, Treatment & Rehabilitation of Athletic Injuries (Sports Med II) (1)  
- **SC 465P** Advanced Application of Sports Medicine (Sports Med III) (1)  
- **PE 420X** Sports Medicine Health & Physical Education (1)  
- **SS 645** Sports Psychology (1)  
- **SC 468P** Wellness & Rehabilitation Clinic (.5)  
- **SC 469P** Intro to Exercise Science (1)

### Graduation Requirements
- Science (• Life • Physical)
Exploring Health Careers

**SC 500P**  .5 Credit  Grades 10-11-12

**Prerequisite:** Biology I. Students in this course will explore the many options of health careers by creating a health career portfolio; interacting with health care professionals (in class and through visits to health care facilities); demonstrating a basic understanding of health care systems; applying science knowledge and skills in health care situations; applying mathematics, technology, and communications skills to health care situations; learning teamwork and leadership skills; and becoming an informed health care consumer. **Guided Enrollment Note:** This course is a choice for a program of studies to earn an endorsement in the Biotechnology/Life Sciences and Sports Medicine/Athletic Training programs at Olathe North High School. This course is also open to any student at ONHS and to a student from any school who wishes to enroll concurrently in the CNA preparation course. Concurrent enrollment in Biology I is allowed.

**Adv. Health Careers (Certified Nurse Assistant)**

**SC 505P**  1 Credit  Grades 11-12

**Prerequisite:** Exploring Health Careers. Through partnership with Johnson County Community College, the CNA Preparation class is offered as a 2-hour, 1 semester-block. The content of this class meets the requirements for the Kansas CNA certification exam and consists of college-level material. The class provides classroom instruction with content delivered online from JCCC. Students practice and must successfully demonstrate CNA skills in the Olathe North lab prior to attending clinicals. Skills include patient care in daily hygiene, bedside care, vital-signs, and CPR training. **Guided Enrollment Note:** This course is a choice within a program of studies to earn an endorsement in the Biotechnology/Life Sciences program at ONHS. Senior status strongly recommended. Students from any Olathe senior high may attend this semester course at Olathe North. Concurrent enrollment in Exploring Health Careers may be considered. **NOTE:** Eight clinical labs at a local nursing center require that students either report early or stay beyond regular school hours on the eight dates of the clinical sessions. These are associated with this class. Successful completion of CNA class work and clinicals is required to qualify to take the Kansas CNA exam. See your counselor for specific enrollment information.

Forensic Biotechnology

**SC 550**  .5 Credit  Grades 10-11-12

**Prerequisite:** Biology I. This course explores the principles and skills of biotechnology used in forensic science. The topics in the course focus on collection methods and analysis of crime scene evidence. These methods will include: hair identification, blood analysis, DNA profiling, fingerprint identification, forensic botany and forensic entomology. The topics will be presented through interactive lecture, laboratory studies, mock crime scene processing and guest speakers. **Guided Enrollment Note:** This course is a choice within a program of studies to earn an endorsement in the Biotechnology/Life Sciences at ONHS. This course is also open to all ONHS students. Concurrent enrollment in Biology I may be considered.

Advanced Biotechnology: Cellular and Molecular Biology

**SC 560**  2 Credits  Grades 11-12

**Prerequisite:** Biology I and General Chemistry. This course is for students interested in advanced biological studies. Students will develop biotechnology skills of investigation and learn concepts of genetics and developmental biology on molecular and cellular levels. Students will apply their skills and learning in real-world situations, including student research projects. **Guided Enrollment Note:** This two hour, two semester class is required for an endorsement of Biotechnology or Biomedical tracks. Two hours, one semester is required for Animal Health endorsement. Concurrent enrollment in General Chemistry may be considered.

Lab Tech

**SC 570**  .5 Credit  Grade 9

Program students in this course will be introduced to laboratory skills, experimental methods, and careers in science. Laboratory skills and collection of data will be valuable in all future science classes. Designing and interpreting experiments is fundamental to scientific research and can be directly related to future careers. **Guided Enrollment Note:** This is a required course for endorsement, and only open to students, in the Animal Health, Life Sciences and Geosciences 21st century programs at ONHS.

Life Science Senior Project

**SC 580**  .5-2 Credits  Grade 12

Senior Project is a course of study that includes either a research project or field experience as per instructor approval. **Guided Enrollment Note:** Approval of Biotechnology/Life Science advisor required.

Other Biotechnology/Life Sciences course selections are listed in the Science and Technical Education sections of the Program Planning Guide, pages 34 and 35. These courses include:

SC 400X Applied Biology
SC 410X Biology I
SC 420 Horticulture I and II (SC 430)
SC 510X College Biology
SC 515X AP Biology
SC 530X Anatomy & Physiology
SC 610X General Chemistry
SC 620X Honors Chemistry
SC 630X College Chemistry
SC 635X AP Chemistry
SC 710X Physics
SC 720X College Physics

Biotechnology/Life Sciences program students should be enrolled in at least one science course and at least one mathematics course each year of senior high.

Distinguished Scholar

Basic Photography

**AR 450**  .5 Credit  Grades 10-11-12

This is an introduction to photography as a visual communication. This course explores photographs and 35mm cameras. Emphasis is placed on the developing and printing of black and white film and the aesthetics of picture taking. In addition, the course will cover the basic fundamentals of photography (use of the camera and its components) and darkroom techniques that include film development, use of the enlarger, and paper development. **Guided Enrollment Note:** Available through Distinguished Scholar only at ON.

Advanced Photography

**AR 460**  .5 Credit  Grades 11-12

**Prerequisite:** Basic Photography. The course covers advanced and applied photography in black and white and with an emphasis on craftsmanship, problem solving, and visual communication. Further emphasis is placed on the development of the student’s ability to apply creative thinking and contemporary techniques in executing meaningful and professional photographs. **Guided Enrollment Note:** Available through Distinguished Scholar only at ON.
21st Century Programs

DS Freshman Expedition

**WW 240X**  1 Credit  Grade 9

Ninth graders accepted to the Distinguished Scholars Program will enter a freshmen seminar in which students will use Expeditionary Learning strategies. Freshmen will participate in Expeditionary Learning investigations that integrate the five curricular Distinguished Scholars areas. Freshmen will build relationships with each other and become familiar with the Distinguished Scholars content areas. At the end of their 9th grade year, students who have met the required criteria will be eligible to choose a content area to enter for the next year.

Symposium

**WW 250-267**  1 Credit  Grades 10-11-12

DS Symposium is a research-based class involving all of the DS program areas. Through the Expeditionary Learning model, a topic is chosen for active investigation. Students conduct research through primary sources, expert speakers, and field work. Students analyze, assess, and appraise current events and historical contexts. Students will apply the lessons of the past in comprehending the events of the present day.

Geosciences

**Marine Biology**  SC 415  .5 Credit  Grades 10-11-12

*Prerequisite: Biology I.* This course serves as an introduction to the biology of marine organisms and will present a broad overview of the field. Students will study the anatomy of marine organisms through the observation of live species in our aquaria and dissection of lab specimens. Other topics of study include the marine environment, physical factors influencing marine organisms, marine ecosystems, and the diversity of marine life. It will emphasize classification, distribution, ecology, physiology, major community types, and economic aspects of marine organisms. Guided Enrollment Note: This course is a requirement for endorsement in the Geosciences and Animal Health programs at ONHS. This course is also open to any student at Olathe North.

**Physical Oceanography**  SC 450  .5 Credit  All Grades

Whether you live on the coast or in the middle of the continent, oceans affect life on earth. Studies will include hands-on lab investigations in the Geosciences lab at ONHS. Topics will include history of, present structure, exploration, physical & chemical characteristics, as well as the current state of the world’s oceans affecting life on Earth. Guided Enrollment Note: This course is a choice for endorsement in the Geosciences program at ONHS. This course is also open to any student at Olathe North.

**Advanced Geoscience I**  SC 470X  1 Credit  Grades 11-12

This course utilizes a global perspective for the in-depth study of earth science topics including oceanography, hydrology, meteorology, paleontology, geology and plate tectonics. Students will learn and apply computer skills to study earth systems (such as GIS, GPS, Google Earth, etc.). Studies will include hands-on labs and field investigations. Group research may lead to individual senior research projects. Guided Enrollment Note: This course is a requirement for endorsement in the Geosciences program at ONHS. Concurrent enrollment or prior completion of General Chemistry is recommended. This course is also open to any student at Olathe North.

**Advanced Geoscience II**  SC 472X  1 Credit  Grade 12

This course utilizes information and skills from previous Geosciences coursework where students will complete a senior project. Senior projects are individually tailored to the student’s interest and include project-based field research from a variety of earth science topics, or a professional-based field experience (such as an internship). Students will also learn and apply computer skills to study earth systems (such as GIS, field data collection and online collaborations). Studies will include lab and field investigations. Guided Enrollment Note: This course is a requirement for endorsement, and only open to students, in the Geosciences program at ONHS.

**Aquatic Methods**  SC 480X  1 Credit  Grades 10-11

Students in this hands-on course will study the closed environments of ocean ecosystems with our facilities multiple salt and fresh water aquaria. Students will study the various filtration systems, conduct water quality studies, analyze data in the chemistry of the water, problem-solve issues and transition new life into the aquaria. Students will also share their knowledge and skills through interpretive (teaching) programs to local elementary students. Guided Enrollment Note: This course is a requirement for endorsement, and only open to students, in the Geosciences program at ONHS.

**Lab Tech**  SC 570  .5 Credit  Grade 9

Program students in this course will be introduced to laboratory skills, experimental methods, and careers in science. Laboratory skills and collection of data will be valuable in all future science classes. Designing and interpreting experiments is fundamental to scientific research and can be directly related to future careers. Guided Enrollment Note: This is a required course for endorsement, and only open to students, in the Animal Health, Life Sciences and Geosciences 21st century programs at ONHS.

Other Geosciences program course selections are listed in the Science section of the Program Planning Guide, pages 34-35. These courses include:

- SC 440  Astronomy
- SC 510X  College Biology
- SC 515X  AP Biology
- SC 610X  General Chemistry
- SC 620X  Honors Chemistry
- SC 630X  College Chemistry
- SC 635X  AP Chemistry
- SC 710X  Physics I
- SC 720X  College Physics

Geosciences program students should be enrolled in at least one science course and at least one mathematics course each year of senior high.
Sports Medicine/Athletic Training

Foundations of Sports Medicine (Sports Med I)
**SC 455P**  .5 Credit  Grades 10-11-12
This course will explore related career fields in sports medicine, including athletic training, fitness instruction, and physical therapy. Students will study ethical and legal considerations as well as emergency first aid and be able to design and assess fitness programs. Students will participate in lab experiences, including taping, wrapping and bracing. Guided Enrollment Note: Any Olathe North student is eligible to take this course.

Prevention, Treatment and Rehabilitation of Athletic Injuries (Sports Med II)
**SC 460P**  1 Credit  Grades 11-12
**Prerequisite: Foundations of Sports Medicine.** Skills acquired in this course build on the fundamentals from Foundations of Sport Medicine. Students will review Emergency Preparedness and First Responder information and expectations. Students will examine various athletic injuries, including injuries to the head and spine, upper extremities, lower extremities, and chest/abdominal area. Treatment, rehabilitation, and “return to play” protocols will be investigated. Guided Enrollment Note: Recommend previous or concurrent enrollment in Anatomy & Physiology.

Advanced Application of Sports Medicine (Sports Med III)
**SC 465P**  1 Credit  Grade 12
**Prerequisite: Foundations of Sports Medicine; Prevention, Treatment and Rehabilitation of Athletic Injuries; Anatomy & Physiology.** Students will develop a portfolio, apply their skills and learning in real-world situations and engage in research which will enhance their field experience or internship. Guided Enrollment Note: Students participate in an individual field experience/externship. This course is a two-hour, one-semester course. Individual transportation required.

Sports Psychology
**SS 645**  .5 Credit  Grades 10-11-12
This course is an introduction to sport and exercise psychology. Students learn about the history of and careers in the area of sports psychology. They look at behavioral psychology, its principles and applications. They learn about practical application of sports psychology as it relates to athletes, coaches, and parents. They also investigate the different social issues that go along with sports psychology such as gender differences, diversity issues and ethical concerns.

Wellness and Rehabilitation Clinic
**SC 468P**  .5 Credit  Grade 12
This course is designed for second and third year Sports Medicine students. The Wellness and Rehabilitation Clinic provides a practical setting for Sports Medicine students to facilitate physical therapy and rehabilitation programs for student athletes. Students conduct fitness assessments, provide rehab with therapeutic modalities and protocols, and conduct return-to-play evaluations in coordination with the school’s athletic trainer. Guided Enrollment Note: Instructor’s permission required; see program facilitator for additional required coursework.

Introduction to Exercise Science
**SC 469P**  .5 Credit  Grade 12
This course is designed to introduce senior Sport Medicine students to exercise physiology, kinesiology and biomechanics. Students will identify careers and educational requirements related to exercise science. Students will understand ATP, phosphocreatine, Lactic acid and the Kreb’s cycle. Students will measure total body mass center of gravity and how force affects it. Students will explain the four quadrants of Why People Move and communicate the importance of physical activity.

Sports Medicine Health & Physical Education
**PE 420X**  1 Credit  Grade 9
An integrated and in-depth approach is used to teach wellness, fitness, sports, nutrition, mental health, social health, drug education, AIDS, and more. Students learn to assess their own fitness levels and administer fitness assessments for other students. Students learn to use pedometers, heart rate monitors, and other fitness assessment tools. CPR, First Aid and AED certifications are acquired during this class. Guided Enrollment Note: This course is required for the Sports Medicine program and replaces P.E. 410. This course fulfills the health requirement for graduation.
e-Communication

Get hands-on experience in Game Design & Animation, Graphic Design, Video Production, and Web Design & Development.

- Broadcast the news, create a video game, develop a Web site or produce marketing materials for a real client.
- Work with professionals through internships and other experiences.
- Become skilled in teamwork, creative problem-solving and effective and innovative communication.

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**Focus One: Graphic Design**

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Graphic Design

Exploring Graphic Design

AR 605P 1 Credit  Grades 10-11-12

Students are introduced to graphic design as a form of visual communication through the use of type, image, form, and color. Working with a variety of digital tools and software, used by design and interactive media companies worldwide, students learn the principles of design and apply them to produce a variety of works; including design layout, photo manipulation, product design, and typography. In addition, students discover a wide range of career possibilities available to the digital artist & graphic designer.

Graphic Design Essentials I

AR 625P 1 Credit  Grades 11-12

Prerequisite: Exploring Graphic Design AR 605P. Students delve deeper into the possibilities of digital art. Exploring such topics as light, color, texture, digital environments for gaming, and representational rendering. Students produce digital abstracts, landscapes, portraits and environments. Guided Enrollment Note: e-Communication students, in addition to the above will be required to do the following: work 50 hours during their sophomore and junior year to complete a project that is appropriate for endorsement along with proper documentation and a written reflective paper.

Graphic Design Essentials II

AR 628 1 Credit  Grades 11-12

Students attain the skills essential to create “high impact” page layouts, logos, content and messages. Students use both traditional and digital tools to create brochures, posters, and business ensembles. Students work both as individuals and on teams from concept to completion. This course gives students the opportunity to solve complex design problems and manage creativity, technical skills, audience, budget, and time constraints in projects similar to those faced by designers.

e-Communication Studio I

CP 700P 1 Credit  Grade 12

Students use knowledge attained in previous strands of e-Communication to develop client based projects. Collaboration, teamwork, listening skills, and working with customers will be emphasized in this course. Students will also create a portfolio of work that may be submitted to the College Board for college credit as well as to colleges and art schools for admission and scholarship competitions.

e-Communication Studio II

CP 710X 1 Credit  Grade 12

e-Communication seniors research and apply for internships within their field of study. The internship may be on-site or it may be a business partnership where the student is doing work for a client using the studio equipment of the school. The student and the client will still be meeting on a regular basis to make sure expectations are being met. Objectives of this course include, collaboration, listening skills, and working with customers will be emphasized in this course. This is the culminating course for the e-Communication students.

Web Design and Development

Exploring Web Design

CP 550 1 Credit  Grades 10-11-12

Students are immersed in a hands-on introduction to web design and development, covering topics such as XHTML, CSS, and graphic design & animation for the Web, using tools such as DreamWeaver, Photoshop, and Flash. Students are introduced to database web technology, explore career options, create web sites for client case studies, and address user interface design and usability issues. By the end of this course, students design, create and implement web sites from start to finish.

Web Design Essentials I

CP 555P 1 Credit  Grades 11-12

Students create Web sites using advanced graphic and web design techniques, following effective layout, user-interface, usability, and cross-platform compatibility principles. Students also use elements of advanced Web development, such as XHTML, CSS and JavaScript in creating Web sites. Students become fluent in Web mastering strategies and techniques.

Web Design Essentials II

CP 560P 1 Credit  Grades 11-12

Students manage a web server and create database-driven Web sites, using PHP/mySQL. Students also create and manipulate animations and audio/video for the Web, create interactive Web sites, and apply marketing concepts to Web sites.

e-Communication Studio I

CP 700P 1 Credit  Grade 12

Students use knowledge attained in previous strands of e-Communication to develop client based projects. Collaboration, teamwork, listening skills, and working with customers. Students also create a portfolio of work that may be submitted to the College Board for college credit as well as to colleges and art schools for admission and scholarship competitions.

e-Communication Studio II

CP 710X 1 Credit  Grade 12

e-Communication seniors research and apply for internships within their field of study. The internship may be on-site or it may be a business partnership where the student is doing work for a client using the studio equipment of the school. The student and the client meet on a regular basis to make sure expectations are being met. Objectives of this course include, collaboration, listening skills, and working with customers. This is the culminating course for the e-Communication students.
Video Production

Exploring Video Production
LA 820P 1 Credit Grades 11-12
Students develop introductory skills for success in either the Entertainment fields of video or Convergent Journalism. Through a variety of hands-on projects, students learn the basics of development, pre-production, production, and post-production, as well as exploring the equipment and techniques used to develop a quality journalistic and entertainment production. Assignments encompass both individual and group work and involve both written and performance based assessment.

Convergent Journalism I
LA 820P 1 Credit Grades 11-12
Students receive instruction in and practice the various types of journalistic writing, editing, page design, headline writing, and other journalistic skills. Students also conduct the business of the paper, such as advertising sales, billing, and distribution. Students maintain an on-line version of the paper and work on video production techniques to create school news broadcast features for the district cable channel or online. Guided Enrollment Note: e-Communication students, in addition to the above, will develop skills in social media, (twitter, blogs), live productions, and maintain an online newspaper in alignment with backpack journalism.

Convergent Journalism II
LA 820P 1 Credit Grades 11-12
Students learn to identify conflict awareness, reliability of sources, creating publicity materials, public relations campaigns and working with media. Students also conduct the business of the paper, such as advertising sales, billing, and distribution. Students maintain an on-line version of the paper and work on video production techniques to create school news broadcast features for the district cable channel or online. Guided Enrollment Note: In addition to the above, e-Communication students will develop skills in social media, (twitter, blogs), live productions, and maintain an online newspaper in alignment with backpack journalism.

Entertainment Essentials I
PA 850P 1 Credit Grades 11-12
Students apply a basic understanding of producing video for a variety of uses. Topics include analyzing the development, pre-production, production and post-production process, as well as exploring the equipment and techniques used to develop a quality audio video production. These focus areas encompass both short and long-term projects both individually and collectively.

Entertainment Essentials II
PA 855P 1 Credit Grades 11-12
Prerequisite: Entertainment Essentials I. Students apply the fundamental techniques learned in the Entertainment Essentials I course through the technical skills needed to work with all forms electronic/digital video. Students enrolled in the course advance their skills in the study, creation, and experience with a variety of projects. Each student completes an electronic portfolio to showcase his/her work and present it to their peers, educators, and business professionals.

e-Communication Studio I
CP 700P 1 Credit Grade 12
Students enrolled in Studio I use knowledge attained in previous strands of e-Communication to develop client based projects. Collaboration, teamwork, listening skills, and working with customers emphasized in this course. Students also create a portfolio of work that may be submitted to the College Board for college credit as well as to colleges and art schools for admission and scholarship competitions.

e-Communication Studio II
CP 710X 1 Credit Grade 12
e-Communication seniors research and apply for internships within their field of study. The internship may be on-site or it may be a business partnership where the student is doing work for a client using the studio equipment of the school. The student and the client meet on a regular basis to make sure expectations are being met. Objectives of this course include, collaboration, listening skills, and working with customers. This is the culminating course for e-Communication students.

Game Design & Animation

Exploring Animation
AR 630P 1 Credit Grades 10-11-12
Students learn the art of storytelling through the processes of drawing, storytelling, and narrative writing. While studying the elements and principles of animation using a variety of tools, beginning animators will produce drawings, flipbooks, characters, environments, products, digital 2D, and digital 3D animations. The focus is on learning how to bring objects and characters to life to be used in film, television, web, business, training and computer gaming.

Animation Essentials I
AR 640P 1 Credit Grades 11-12
Prerequisite: Exploring Animation (Spring, Sophomore year). Students progress from traditional 2D animation, to 3D animation. Students build on Adobe skills with more attention to the use of editing tools such as filters, layer masks and vector paths. Compilation of media including sound, video and other motion skills are implemented.

Animation Essentials II
AR 645P 1 Credit Grades 11-12
Prerequisites: AR 640P (Fall, Junior year). Students work more with the timing and motion of animation rather than just the artistry. Using these principles, they learn dynamics (the physics of elements; gravity, fire, fluids, wind, etc.), presets and exporting into different animation files and codecs (Web vs. high-def).

e-Communication Studio I
CP 700P 1 Credit Grade 12
Students use knowledge attained in previous strands of e-Communication to develop client based projects. Collaboration, teamwork, listening skills, and working with customers are emphasized in this course. Students also create a portfolio of work that may be submitted to the colleges for College Now credit as well as to universities and art schools for admission and scholarship competitions.

e-Communication Studio II
CP 710X 1 Credit Grade 12
e-Communication seniors research and apply for internships within their field of study. The internship may be on-site or it may be a business partnership where the student is doing work for a client using the studio equipment of the school. The student and the client meet on a regular basis to make sure expectations are being met. Students not in an internship will focus on a senior-selected project. Objectives of this course include, collaboration, listening skills, and working with customers. This is the culminating course for e-Communication students.
# Aerospace + Engineering

Explore the principles, procedures and diversity of engineering through the application of technology...

- Study, design and build robots, rockets, chemical materials, towers and airplanes through real-world projects.
- Interact and learn from industry professionals through guest lectures, field trips and internships.
- Master concepts and skills that will prepare you for exciting careers in all areas of engineering.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course</th>
<th>Credit</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 390P</td>
<td>Fundamentals of Design</td>
<td>.5</td>
<td>9-10-11</td>
</tr>
<tr>
<td>IT 400P</td>
<td>Intro to Engineering Technology</td>
<td>.5</td>
<td>All Grades</td>
</tr>
<tr>
<td>SC 650X</td>
<td>Aerospace+Engineering Chemistry</td>
<td>1</td>
<td>11-12</td>
</tr>
<tr>
<td>SC 655P</td>
<td>Aerospace+Engineering Mathematics</td>
<td>1</td>
<td>11-12</td>
</tr>
<tr>
<td>SC 650X</td>
<td>Aerospace+Engineering Physics</td>
<td>1</td>
<td>11-12</td>
</tr>
<tr>
<td>MA 600X</td>
<td>Aerospace+Engineering Mathematics</td>
<td>1</td>
<td>11-12</td>
</tr>
<tr>
<td>IT 500P</td>
<td>A+E Pre-Engineering CAD I</td>
<td>.5</td>
<td>All Grades</td>
</tr>
<tr>
<td>IT 510P</td>
<td>A+E Pre-Engineering CAD II</td>
<td>.5</td>
<td>All Grades</td>
</tr>
<tr>
<td>IT 520</td>
<td>A+E Advanced Engineering CAD III</td>
<td>.5</td>
<td>All Grades</td>
</tr>
<tr>
<td>SC 780P</td>
<td>A+E Capstone</td>
<td>.5 or 1</td>
<td>All Grades</td>
</tr>
<tr>
<td>SC 790</td>
<td>A+E Senior Internship</td>
<td>.5 or 1</td>
<td>All Grades</td>
</tr>
<tr>
<td>SC 795</td>
<td>A+E Senior Internship</td>
<td>1 or 2</td>
<td>All Grades</td>
</tr>
</tbody>
</table>

### Fundamentals of Design  
In this course, students discover the engineering design process through hands-on projects in an engaging and collaborative environment. Students explore this process while utilizing the tools of scientific inquiry, problem solving, and data analysis to evaluate and optimize their designs. An introduction to sketching and computer modeling will provide students with the foundation to visualize and communicate their design ideas graphically. Students will enhance their critical and innovative thinking skills through design challenges of this course as they survey the diverse and exciting fields of engineering.

### Introduction to Engineering Technology  
Various systems of technology are introduced with an emphasis in engineering technology: communication, production, transportation, computer applications and supporting activities that are appropriate for the high school classroom. Students develop technological literacy and critical thinking through design and problem solving. Hands-on laboratory activities provide the primary means of learning.

### Aerospace+Engineering Chemistry
**Prerequisite: Algebra I is required.** The major emphasis is on hands-on making and testing of polymers, composites, metals and ceramics. The study of solids and their properties is critical for the various fields of engineering. Students will also be exposed to traditional chemistry topics such as formula writing, conservation of mass, acids and bases and thermo chemistry. **Guided Enrollment Note:** Concurrent enrollment in Advanced Algebra II/Trigonometry or higher math is recommended.

### Materials Science & Engineering
In the Materials Science & Engineering Course students integrate concepts from chemistry, physics, and math to understand how the atomic structure of matter determines the physical characteristics that make materials useful to designers. The course will combine hands-on design projects with learning the science behind the essential properties of metals, polymers, ceramics, and composite materials. Students will gain an understanding of the importance of materials science topics in all fields of engineering while also enhancing their engineering design skills through a minimum of two significant materials-focused design projects during the semester course.

### Aerospace+Engineering Physics
**Prerequisite: Algebra II.** This class will cover the world of mechanics, electricity, wave mechanics, sound, light, and radiation. An emphasis on lab technique and the use of electrical systems allows the student to learn how to design and use systems and carry-over these systems into their own designs for contests and senior A+E projects. **Guided Enrollment Note:** Advanced Algebra II/Trigonometry is recommended prior to or concurrent with Physics I.

### Aerospace+Engineering Mathematics
This course will apply algebraic content and methods to solve problems in an engineering context. The curriculum will include applying properties of real number systems, numerical estimation, analysis of patterns, solution of equalities and inequalities, use of mathematical models to represent the physical world, and application of geometry in engineering design processes. Project-based learning and collaborative projects will be infused throughout the curriculum to solve problems within an engineering context. **Guided Enrollment Note:** Successful completion of Geometry.
### A+E Pre-Engineering / CAD I
**Course Code:** IT 500P  
**Credit:** .5  
**Grades:** 10-11-12

Students complete an in-depth study in the skills of sketching, manual drafting, and computer-aided drafting (CAD) with emphasis on presentation and construction drawings of mechanical objects and their impacts on design and manufacturing. Students will develop and test projects/models in conjunction with their A+E science course. Students will be exposed to the basics of aviation and flight as well as fundamentals of engineering and programming. Hands-on laboratory activities provide the primary means of learning.

### A+E Pre-Engineering / CAD II
**Course Code:** IT 510P  
**Credit:** .5  
**Grades:** 10-11-12

**Prerequisite: A+E CAD I.** Students undertake an in-depth study in the skills of designing, problem-solving, programming, and CAD with emphasis on presentation and construction drawings of mechanical objects and their impacts on manufacturing. Students will develop and test projects/models prototype in conjunction with their A+E Math and Science courses. Hands-on laboratory activities provide the primary means of learning.

### A+E Advanced Engineering / CAD III
**Course Code:** IT 520  
**Credit:** .5  
**Grades:** 10-11-12

**Prerequisite: A+E CAD II.** Students undertake an in-depth study in the skills of designing, problem-solving, and CAD with emphasis on presentation and construction drawings of mechanical objects and their impacts on manufacturing. Students will develop a prototype in conjunction with their A+E Science course. All students prepare a professional portfolio demonstrating work. Hands-on laboratory activities provide the primary means of learning.

### Aerospace+Engineering Capstone Projects
**Course Code:** SC 780P  
**Credit:** .5 or 1  
**Grade:** 12

This is a senior course for the Aerospace+Engineering curriculum. Students will plan and complete a project of practical use. The project will be the culmination of this program and will utilize previously learned A+E course outcomes to research, design, and build an engineering project. The project will include collaboration with community professionals.

### Aerospace+Engineering Senior Internship
**Course Code:** SC 790 A/B/X  
**Credit:** .5 or 1 Semester  
**Grade:** 12

In this senior level course for the Aerospace+Engineering curriculum, students will interview and be selected for internships with participating area engineering/aerospace/aviation businesses. Students will work alongside business professionals to complete all assigned responsibilities. Guided Enrollment Note: Student enrollment does not necessarily guarantee an internship will be awarded.

### Aerospace+Engineering Senior Internship
**Course Code:** SC 795 A/B/X  
**Credit:** 1 or 2 Year  
**Grade:** 12

In this senior level course for the Aerospace+Engineering curriculum, students will interview and be selected for internships with participating area engineering/aerospace/aviation businesses. Students will work alongside business professionals to complete all assigned responsibilities. Guided Enrollment Note: Student enrollment does not necessarily guarantee an internship will be awarded.
Enter the high-tech world of computer and software engineering by creating real-world projects while developing the necessary skill for success in this fast-paced, dynamic, and growing industry…

- Develop computer and server programming competence through performance assessments and project-based learning
- Acquire and demonstrate an advanced database technical skill set including data mining, analysis, manipulation, and warehousing
- Build authentic, real-world computer and software engineering applications which provide a service to the school and community.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course</th>
<th>Credit</th>
<th>All Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP 510P</td>
<td>Visual Basic Programming.Net</td>
<td>.5</td>
<td>All Grades</td>
</tr>
<tr>
<td>CP 525P</td>
<td>Advanced Visual Basic Programming.Net</td>
<td>.5</td>
<td>All Grades</td>
</tr>
<tr>
<td>CP 530P</td>
<td>Java</td>
<td>.5</td>
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</tr>
<tr>
<td>CP 535P</td>
<td>C++ Programming</td>
<td>.5</td>
<td>All Grades</td>
</tr>
<tr>
<td>CP 540P</td>
<td>Advanced C++ Programming</td>
<td>.5</td>
<td>All Grades</td>
</tr>
<tr>
<td>CP 610P</td>
<td>Data Forensics</td>
<td>.5</td>
<td>All Grades</td>
</tr>
<tr>
<td>CP 615P</td>
<td>SQL Programming</td>
<td>.5</td>
<td>All Grades</td>
</tr>
<tr>
<td>CP 620P</td>
<td>Oracle I</td>
<td>.5</td>
<td>All Grades</td>
</tr>
<tr>
<td>CP 625P</td>
<td>Oracle II</td>
<td>.5</td>
<td>All Grades</td>
</tr>
<tr>
<td>CP 630P</td>
<td>CaSE Senior Project (2-hour block)</td>
<td>1</td>
<td>Grade 12</td>
</tr>
</tbody>
</table>

Data Forensics: **CP 610P .5 Credit All Grades**

In this introductory course, students will acquire an understanding of data forensics and what it means to be a Falcon Data Ranger. Additionally, students will be exposed to scenarios involving authentic data to solve crimes, strengthen security, and expedite client data access. Guided Enrollment Note: Preference will be given to students enrolled in the 21st Century CaSE Program.

SQL Programming: **CP 615P .5 Credit All Grades**

**Prerequisite: Visual Basic Programming.** This course is required for all students enrolled in the CaSE program. Students will utilize SQL (Standard Query Language) to develop computer and server programming competence through project-based learning. Students will demonstrate a full range of database technical skills, to include data mining, data warehousing, data manipulation, data normalization, and administrative duties.

Oracle I: **CP 620P .5 Credit Grades 10-11-12**

**Prerequisite: SQL Programming.** This course will explore the PL/SQL Language for databases. In this course, the students will learn database design fundamentals, requirements and database normalization. Students will also learn the basic PL/SQL commands. The students will demonstrate skills obtained through an Oracle 10g database.

Oracle II: **CP 625P .5 Credit Grades 10-11-12**

**Prerequisite: Oracle I.** This course will prepare students for the basic Oracle certification test. The students will learn advanced database techniques and will demonstrate skills obtained through an Oracle 10g database.

CaSE Senior Project: **CP 630P 1 Credit Grade 12**

**Prerequisite: Successful completion of program path. Pre-Test required prior to enrollment.** This course is a culmination of skills acquired in all Computer and Software Engineering courses. In this course student teams select Senior Project(s) with instructor approval. The students also determine a team leader to facilitate the project. This course allows for direct end user interaction and practical professional experience. Guided Enrollment Note: 2-Hour Block.

Note: See page 17 for additional course descriptions.
Professional Careers Academy (PCA)

Your future starts now with the Professional Careers Academy. Learn to research, evaluate and communicate effectively while exploring one of five areas of study: Science and Engineering, Communication Arts, Legal Services, Social Science and Business.

In this program students will...

- Engage in in-depth studies of ethics and the study of personal and professional ethical practices
- Assist in the organization of the Olathe South Professional Lecture Series
- Develop and work on service learning projects and individual research projects
- Participate in mentorships and internships throughout the community

### Ethics

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course</th>
<th>9</th>
<th>10</th>
<th>11</th>
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<tbody>
<tr>
<td>BU 800</td>
<td>Ethics</td>
<td></td>
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<tr>
<td>LA 810</td>
<td>Introduction to Communication Arts</td>
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<td>YA 620</td>
<td>PCA Business Senior Project</td>
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<tr>
<td>YA 625</td>
<td>PCA Law and Legal Studies Senior Project</td>
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<tr>
<td>YA 630</td>
<td>PCA Science and Engineering Senior Project</td>
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<td></td>
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<tr>
<td>YA 635</td>
<td>PCA Communication Arts Senior Project</td>
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<td></td>
<td>.5-2</td>
</tr>
<tr>
<td>YA 640</td>
<td>PCA Social Sciences Senior Project</td>
<td></td>
<td></td>
<td></td>
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<td>.5-2</td>
</tr>
</tbody>
</table>

**CRN Course**

- **BU 800 Ethics**
  - .5 Credit  All Grades

**Students will explore ethical decision-making from both a personal and professional perspective. Common ethical values will be examined. The course will include case studies from each of the five strands of the Professional Careers Academy (Business, Communications Arts, Law and Legal Studies, Science & Engineering and Social Sciences.) Each class will facilitate a service learning project that involves research, analysis, decision-making and project management skills.**

**Guided Enrollment Note:** The class is open to all students. Those seeking a Professional Careers Academy endorsement are required to take this class.

### Introduction to Communication Arts

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 810</td>
<td>Introduction to Communication Arts</td>
<td></td>
<td></td>
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<td>.5</td>
</tr>
</tbody>
</table>

**LA 810 Introduction to Communication Arts**

- .5 Credit  Grades 10-11-12

In this semester class, students serve as the marketing and public relations department for Olathe South High School in preparation for a career in communication arts. Students study basic skills and concepts in journalism. In addition, students receive training in broadcast journalism including a working knowledge of digital video camera techniques, script writing, and editing video projects with iMovie and Final Cut Pro. Instruction is also given on cutting edge technology such as pod casting and blogging. The work produced in this class will promote Olathe South to the community through video stories featured on Falcon Week and contributions to the school's Web site.**

**Guided Enrollment Note:** This course is recommended for sophomores who would like an introduction to communication arts preparing them for additional communication courses.

### PCA Senior Project

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>YA 620-640</td>
<td>PCA Senior Project</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>.5-2</td>
</tr>
</tbody>
</table>

**YA 620-640 PCA Senior Project**

- .5-2 Credits  Grade 12

Senior Project is an approved course of study that may include proposed research, special project(s), or field experience. Students selecting this optional enrollment option have the flexibility to build time into their schedule to complete approved research, project, or field experience requirements. Students are required to present research, project, field experience results at an end-of-year Senior Symposium to receive a Professional Career Academy endorsement on their transcripts. **Guided Enrollment Note:** This course is optional for senior PCA candidates and requires prior approval by the Program Facilitator or Strand Dean.
## Graduation Audit
### Olathe High Schools

### Communication (5 credits total)
- Applied Communication/International Language - 1 credit (CAL)  
  - .5  
  - .5
- English - 4 Credits (CEN)  
  - 1  
  - 1  
  - 1  
  - 1

### Humanities (4 credits total)
- Fine Arts (Visual or Performing) - 1 credit (HFA)  
  - .5  
  - .5
- Social Science - 3 credits (HSS)  
  - Modern World History  
  - United States History  
  - American Government  
  - Elective

### Math, Science, Technology (7 credits total)
- Math - 3 credits (MMA)  
  - 1  
  - 1  
  - 1
- Science - 3 credits (MSP and MSL)  
  - Life  
  - Physical  
  - Elective
- Technology - 1 credit (MTC)  
  - .5  
  - .5

### Life Skills (2 credits total)
- Prac. & Consumer Studies - 1 credit (LCS)  
  - .5  
  - .5
- Health & Wellness - 9th grade* - 1 credit (LPH)  
  - .25 Health  
  - .25 PE  
  - .25 PE  
  - .25 PE  
  * For the Class of 2014 only, this requirement was met through 8th grade PE/Health

### Individual Focus (6 credits or any credits beyond those above XIF)

| 1 | 1 | 1 | 1 | 1 | 1 |

Shaded boxes represent ACT CORE curriculum required for students pursuing post-secondary education/training.

**Total:** 24 credits required for graduation