

# Tennessee High School

2017-2018 Freshman Course Catalog



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Welcome to Tennessee High School! Our mission at THS is “Preparing THS Students for Post-Secondary Success.” You will be engaged in rigorous, relevant educational experiences designed to prepare you for your post-high school goals. It is our intention to prepare every student for college.

Below is a summary of your graduation requirements at THS. Please review the course offerings in this catalog and be prepared to discuss your choices at your registration appointment with a THS counselor. Your choices, along with your standardized test scores and teacher recommendations, will be used to schedule you in appropriate courses for your first year at THS. If you have any questions during this process, please contact a THS counselor.

We look forward to seeing you soon!

### **Graduation Requirements**

<b>English</b>	4 credits	English I	
		English II	
		English III	
		English IV	
<b>Math</b>	4 credits	Integrated Math I	Students must take a math course every year.
		Integrated Math II	
		Integrated Math III	
		One additional credit beyond Integrated Math III	
<b>Science</b>	3 credits	Biology	
		Chemistry or Physics	
		One additional Lab Science (i.e. Physical Science, AP Biology, AP Chemistry, etc.)	
<b>Social Studies</b>	3 credits	World History/ AP Human Geography	
		U.S. History	
		U.S. Government/ Economics	
<b>Physical Education</b>	2 credits	Wellness	2 semesters of JROTC may substitute for Wellness.
		PE/Driver's Education	
<b>Foreign Language</b>	2 credits	2 semesters of the same Language	
<b>Fine Arts</b>	1 credit	Art, Choral Music, Theatre, Digital Arts and Design, or Instrumental Music	
<b>Program of Study</b>	3 credits	Focused Elective Program of Study	Choose from: AP, Fine Arts, Humanities, Math/Science, CTE
<b>Computers- Personal Finance</b>	1 credit		
<b>Electives</b>	<b>5 credits</b>		
<b>Total</b>	<b>28 credits</b>		

#### Additional Requirements:

- Students must complete a capstone experience
- Students must also pass a Civics exam; this is incorporated into the Government/Economics course
- Students must take the ACT

**Programs of Study 2017 – 2018**  
**Students must select 3 elective credits from a single Program of Study (POS) per graduation requirements.**

**Academic**

**Advanced Placement**

AP Art  
AP Biology  
AP Calculus  
AP Chemistry  
AP Literature and Composition  
AP Human Geography  
AP Physics 1  
AP Psychology  
AP U.S. History  
AP Language and Composition  
AP Music Theory  
AP Spanish Language and Composition

**Math/Science**

Pre-Calculus  
AP Calculus  
Statistics  
Chemistry  
Physics  
AP Chemistry  
Ecology  
AP Physics 1  
AP Biology  
Anatomy and Physiology

**Fine Arts**

Concert Choir  
Instrumental Music  
Music Theory  
Art 1, Art 2, Art 3, Art 4  
AP Art  
Percussion  
Madrigal Singers  
Theatre 1  
AP Music Theory

**Humanities**

Creative Writing 1, 2	German 1,2,3,4
Public Speaking	AP English
Mandarin Chinese 1,2,3,4	Spanish 1,2,3,4
Journalism (Yearbook)	AP Spanish Language and Composition
Journalism (Maroon & White)	
Mythology/ Etymology	
French 1, 2, 3, 4	

## Career & Technical Education

### Advanced Manufacturing Sector

Machining Technology:  
Principles of Manufacturing  
Principles of Machining I  
Principles of Machining II

### Architecture & Construction Sector

Residential & Commercial Construction:  
Fundamentals of Construction  
Residential & Commercial Construction I  
Residential & Commercial Construction II

### Arts, Information, & Communication Sector

Broadcasting:  
Broadcasting I  
Broadcasting II  
Broadcasting III  
AP English Lang & Comp

Digital Arts & Design:  
Digital Arts & Design I  
Digital Arts & Design II  
Digital Arts & Design III

### Business Management & Administration Sector

Office Management:  
Computer Applications  
Business Communications  
Business Management

### Computer Science Sector

Coding:  
Computer Science Foundations  
Coding I  
Coding II

Networking Systems:  
Computer Science Foundations  
Computer Systems  
Networking

### Hospitality & Tourism Sector

Culinary Arts:  
Culinary Arts I  
Culinary Arts II  
Culinary Arts III  
Culinary Arts IV

### Transportation, Distribution, & Logistics Sector

Auto-Mechanic Maintenance & Light Repair:  
Maintenance & Light Repair I  
Maintenance & Light Repair II  
Maintenance & Light Repair III

### Health Science Sector

Diagnostic Services:  
Health Science Education  
Anatomy & Physiology  
Diagnostic Medicine  
Cardiovascular Services

Emergency Services:  
Health Science Education  
Anatomy & Physiology  
Emergency Medical Services

Nursing Services:  
Health Science Education  
Anatomy & Physiology  
Medical Therapeutics

Therapeutic Services:  
Health Science Education  
Anatomy & Physiology  
Medical Therapeutics  
Pharmacological Science

### Human Services Sector

Cosmetology:  
Cosmetology I  
Cosmetology II  
Cosmetology III  
Cosmetology IV

### Law, Corrections, & Security Sector

Law Enforcement Services:  
Principles of Law, Corrections, & Security  
Criminal Justice I  
Criminal Justice II

Legal and Correction Services:  
Principles of Law, Corrections, & Security  
Criminal Justice I  
Court Systems & Practices

### STEM Sector:

Project Lead The Way:  
Intro to Engineering  
Principles of Engineering  
Aerospace Engineering

### Career Academies

Certificate in Entrepreneurship  
Certificate in Entertainment Technology

## Comparison of Graduation Honors

<u>Tennessee High School Graduates of Highest Distinction</u>	State of Tennessee Honors		<u>Tennessee Scholars</u>	<u>Work Ethic Distinction</u>
	<u>Graduating with Honors</u>	<u>Graduating with "Distinction"</u>		
4 or more completed AP credits	Score at or above all subject area readiness benchmarks on ACT	"B" average, and <b>one</b> of the following:	All Tennessee minimum graduation requirements plus the following:	See p.6 for more information
95 or above cumulative average (taken from final term grades)	Benchmarks are:	1. Earn a nationally recognized industry certificate	2 Career Technical Education Courses (Computer class may count as 1 CTE credit)	
29 or above ACT composite or	Mathematics – 22	2. Participate in at least one of the Governor's Schools	- or -	
1280 or above SAT composite	English - 18	3. Participate in one of the state's All State musical organizations	2 AP credits	
	Reading - 22	4. Be selected as a National Merit Finalist or Semi-Finalist	- or -	
	Science - 23	5. Attain a score of 31 or higher ACT composite score	2 Dual enrollment, Dual Credit, Joint enrollment or online courses	
		6. Attain a score of 3 or higher on at least 2 AP exams	- or -	
		7. Successfully complete the International Baccalaureate Diploma Program	Any combination of two above	
		8. Earn 12 or more semester hours of postsecondary credit recorded on transcript.	80 hours of Community Service	
			"C" minimum in each TN/VA Scholars Course (Courses may be retaken to meet this requirement.)	
			95% attendance over the course of 4 years (No more than 36 total days)	
			No Out-of-School Suspensions	

## **Work Ethic Diploma Distinction**

The Work Ethic Diploma Distinction provides students the opportunity to demonstrate key concepts which are important for success in both the workforce and postsecondary. When students earn this distinction, they are letting area employers know they put a focus on the 21<sup>st</sup> century skills and understand their role in getting hired and staying employed. Students who graduate with this distinction will be guaranteed an interview with partnering companies if they meet other qualifications.

The following companies and more recognize this distinction in Northeast Tennessee:

The Robinette Company  
Mountain States Health Alliance  
Spherion Staffing Services  
Mullican Flooring  
Alcoa Howmett  
TRW Automotive  
Meritor, Inc.  
Petoskey Plastics  
General Electric  
Lear Corporation  
Rich Products Organization

Team Technologies, Inc.  
Lisega, Inc.  
Hutchinson  
Renold Jeffrey  
Iconex, LLC.  
Bodycote  
Original Footwear Co.  
Tuff Torq Corp.  
ColorTech, Inc.  
WorkNow!, Inc.  
Old Dominion Freight Line

@Work Personnel Services  
Express Employment  
Kelly Services, Inc.  
Cooper Standard Automotive  
Norris Homes  
Baldor Electric Co.  
Kawasaki TN, Inc.  
International Paper  
Mahle Powertrain LLC  
JTEKT Automotive

To receive a Work Ethic Diploma Distinction, a student must earn a minimum of 20 points from the following criteria:

1. Attendance

- 1 pt : Student has no more than 5 absences from school during their senior year.
- 2 pts : Student has no more than 3 absences from school during their senior year.
- 3 pts : Student has no more than 1 absences from school during their senior year.

2. Absence

- 1 pt : Student has no more than one unexcused absence from school during their senior year.
- 2 pts : Student has no unexcused absences from school during their senior year.

3. Tardiness

- 1 pt : Student has no more than two unexcused tardies to school during their senior year.
- 2 pts : Student has no unexcused tardies to school during their senior year.

4. Discipline

- 1 pt : Student has no more than one discipline referral during their senior year.
- 2 pts : Student has no discipline referrals during their senior year.

5. Overall GPA

- 1 pt : Student has an overall GPA of 2.0 to 2.9.
- 2 pts : Student has an overall GPA of 3.0 to 3.4.
- 3 pts : Student has an overall GPA of 3.5 or above.

6. Drug Free

- 5 pts : Student voluntarily presents written proof as being drug free.

7. CTE Coursework

- 1 pt : Student has successfully completed at least one CTE course by the end of their senior year.
- 2 pts : Student has successfully completed two CTE courses by the end of their senior year.
- 3 pts : Student has successfully completed three or more CTE course by the end of their senior year.

8. CTE Competition

- 1 pt : Student has competed in an approved regional level CTE competition during their senior year.
- 2 pts : Student has competed in an approved state level CTE competition during their senior year.
- 3 pts : Student has competed in an approved national level CTE competition during their senior year.

9. TN Promise

- 2 pts : Student is in good standing with TN Promise and has completed the required 8 hours of community service.

10. Dual Enrollment/Credit

- 2 pts : Student has successfully completed a dual enrollment, dual credit, or Advanced Placement course and has been granted credit by any post-secondary institution during or before their senior year.

11. Industry Certification

- 2 pts : Student has received a national industry certification during or before their senior year. (ie, OSHA 10 Hour, NIMS Level 1, CompTIA A+, etc.)

12. Enrollment in Post-Secondary

- 2 pts : Student is registered or has applied at a post-secondary institution for the fall of their graduating year.

13. Career Readiness Certificate

- 2 pts : Student has achieved a Bronze Level Career Readiness Certificate.
- 4 pts : Student has achieved a Silver Level Career Readiness Certificate.
- 6 pts : Student has achieved a Gold or Platinum Level Career Readiness Certificate.

14. Industry Awareness

- 1 pt : Student has participated in one industry awareness event during their senior year.
- 2 pts : Student has participated in more than one industry awareness during their senior year.
- 3 pts : Student has participated in an internship or work based learning activity.

\* For additional information regarding the Work Ethic Diploma Distinction, please see CTE Director, Steve Playl or your counselor. \*

## 2017 - 2018 Schedule

90-Minute Block Classes with Two 45-minute Year Long Periods During 3 <sup>rd</sup> Block			
First Period	7:30-9:00		
Second Period	9:06-10:36		
Third Period*	1 <sup>st</sup> Lunch	2 <sup>nd</sup> Lunch	3 <sup>rd</sup> Lunch
	10:44-11:12 Lunch	10:50-11:35 Singleton I	10:50-12:26 Block class
	11:18-12:54 Block class	11:35-12:03 Lunch	
		12:09-12:54 Singleton II	12:26-12:54 Lunch
Fourth Period	1:00-2:30		

- \* **Students could have a regular block period or 2 singleton classes during 3<sup>rd</sup> period.**
- \*\* **Students will be registering for classes by type only not by their duration (some classes may be scheduled during a block period for 1 semester and some may be scheduled during a year-long singleton period)**

### SCHEDULE CHANGE GUIDELINES

Students wishing to request course changes must contact the Counseling Office (423-652-9317). **Course requests will be accepted through the first two full days of school each semester.** Requests for teacher preferences are not honored at any time.

During the first two days of school and upon the completion of new student enrollment, counselors will consider requests that meet one of the following guidelines:

- A class on the schedule was taken and passed in summer school.
- A class was failed in the second term of the previous year or in summer school that is a prerequisite for a course appearing on the schedule.
- No English or math course appears on the schedule.
- A senior is not registered for a required course for graduation.
- Fewer than eight classes appear on the schedule.
- Courses are not sequenced in prerequisite order on the schedule.
- Student wishes to try a more challenging course in English, math, science, or social studies.

The following are **not** acceptable reasons for requesting a course change:

- Teacher preference.
- Fear of a low grade or course difficulty. (Keep this in mind when registering for Honors and/or AP courses).
- Course is not required for graduation.
- Student did not complete the summer reading requirement.



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## COMPUTERS

### **362020 Computer Literacy with Personal Finance**

This course is designed to improve student use and understanding of information age technology. Mastering the standards will enable students to learn about and effectively access and use technology resources. Students will use a variety of computer applications and tools and will explore the social, historical, and ethical implications of using computer technology. This course will end with an introduction to the basics of finance, focusing on credit cards, bank accounts, and insurance.

### **589120 Computer Applications with Personal Finance**

Computer Applications is the introductory course for the Office Management program of study. While most high school students are, to some degree, familiar with business related technology, this course will take an in-depth look at how technology is used in business and in the workplace. Students will learn common computing fundamentals and concepts involved in the use of business related software such as word processing, spreadsheets, databases, and presentations. In addition, students will have engaged in key critical thinking skills and will have practiced ethical and appropriate behavior required for the responsible use of technology in the workplace and the benefits the use of the internet offers businesses.

## ENGLISH

**Summer Reading** will be required of all English classes. In grades 9-12, students will choose **one** novel from the list to read over the summer and complete **one** of the three assignment options.

### **English Course Sequencing**

<b>Rising Freshman Requirements</b>	<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
	<b>English I</b>	<b>English II</b>	<b>English III</b>	<b>English IV</b>
<i>Students earning a score at or above the 75<sup>th</sup> national percentile on the STAR Reading exam or 11<sup>th</sup> grade reading equivalency on STAR, having a score of 3 (average of all 4 components) on latest 8<sup>th</sup> grade writing sample, having an A or B average for 1<sup>st</sup> semester of English 8, and receiving a 4 on work ethic by 8<sup>th</sup> grade English teacher.</i>	<b>Honors English I</b>	<b>Honors English II</b>	<b>Honors English III or AP Language or Dual Enrollment</b>	<b>Honors English IV or AP Literature or Dual Enrollment</b>

### **300120 English I**

This freshman-level introductory course focuses on close reading of a variety of literary texts and genres, including fiction and nonfiction, as well as developing skills in grammar and writing. The course will emphasize multiple formal writing styles, including narrative, argument, and informational essay development, while utilizing research skills in the writing process. Preparation for the state-mandated assessment (which counts as the student's final exam grade and 15% of the overall course grade) will also be imperative.

### **300110 English I (Honors)**

*Prerequisite: Students must earn a score at or above the 75<sup>th</sup> national percentile on the STAR Reading exam or 11<sup>th</sup> grade reading equivalency on STAR, have a score of 3 (average of all 4 components) on latest 8<sup>th</sup> grade writing sample, have an A or B average for 1<sup>st</sup> semester of English 8, and receive a 4 on work ethic by 8<sup>th</sup> grade English teacher.*

This freshman-level introductory course focuses on close reading of a variety of literary texts and genres, including fiction and nonfiction, as well as developing sophisticated skills in grammar and writing. The course will emphasize multiple formal writing styles, including narrative, argument, and informational essay development, while utilizing research skills in the writing process. Preparation for the state-mandated assessment (which counts as the student's exam grade and 15% of the overall course grade) will also be imperative.

## **ENGLISH ELECTIVES**

### **309710 Mythology/Etymology**

This English elective course introduces word roots and derivatives from both Greek and Latin. It also fully covers the classic book, Edith Hamilton's *Mythology*, which introduces Greek heroes, gods, goddesses, the Trojan War, and *The Odyssey*.

### **301220 Creative Writing I**

Open to all students who are interested in writing, this class is a survey of writing skills and elements including, but not limited to, short stories and poetry. The primary focus is the introduction of various forms and methods of writing. This class is writing intensive.

## **FINE ARTS**

**NOTE: Students are limited to earning a total of one credit per semester in Instrumental Music (with the exception of Drum Majors).**

### **350120 Art I**

This is a survey course in art that covers the basics of drawing, painting, design, clay work, and photography, while meeting the fine arts requirement for college bound students.

### **353020 Instrumental Music**

*Prerequisite: Teacher approval.*

This course includes the marching band in the fall and the concert band in the spring.

### **353030 Color Guard**

*Prerequisite: Teacher approval*

This course is for students participating in the color guard during the fall semester.

### **353010 Percussion**

*Prerequisite: Teacher approval*

This course is for the percussion section in the fall and spring.

### **353120 Concert Choir**

Students will sing music in preparation for fall, winter and spring concerts as well as off-campus performances and spring competitions. Students will learn to read musical notation, and develop healthy vocal technique. Performance participation is mandatory and all students must procure concert attire.

### **351420 Music Theory**

*Prerequisites: Prior basic musical knowledge*

The purpose of this class is to give students the skills they need to advance in both instrumental and vocal music as a possible career, major, or minor in college. Students will learn the structure and composition of music, including advanced harmonies, melodies, rhythms, and modes. A brief section on music history will be covered. Music technology and composition programs will be utilized.

### **352020 Theatre Arts I**

Theater Arts I is offered to students who are new to high school theatre and want to learn basic theatrical skills. This course has an emphasis on acting and theatre history. Theater Arts I students will study the cultural contribution of theater, its structure, the play, and its performance. Acting skills will be taught through the use of monologue and small group scenes. Performance opportunities will be available through the Forensics Program or the Tennessee Speech and Drama League, but are not mandatory. Competitions are held on Saturdays, and rehearsals will be set up for after school hours.

**352120 Theatre Arts II** *Prerequisite: Must pass Theater Arts I or have experience with participating in live theatre in some fashion.*

Theater Arts II is offered to students who want to further their theatrical skills through work in acting and directing. Basic principles of production are studied and applied through performances in various theatrical applications. Production work required. Enrollment in the course **requires** performance dates and times outside of school hours including weekends. Participation in competition pieces will be available through the Forensics Program or the Tennessee Speech and Drama League, but are not mandatory. Competitions are held on Saturdays, and rehearsals will be set up for after school hours.

## **FOREIGN LANGUAGE**

All students interested in college must take two years of the same foreign language. Students who expect to pass the placement exam in college need to take the third and fourth years of that same language. Freshmen enrolling in a foreign language should have an "A" average in English.

### **304120 French I**

This course offers an introduction to the French language including speaking, grammar, writing, and phonetics. Students are exposed to Francophone culture. Memorization with long-term retention is essential.

### **304220 French II**

*Prerequisites: French I*

Students use the skills acquired from French I to develop conversational and comprehension skills at an elementary level in the French language. Intermediate grammar is introduced. Students continue to be introduced to Francophone culture.

### **305120 German I**

This class is introductory level German. Students practice listening, reading, writing and speaking German. Students are introduced to German culture. Emphasis is placed on spoken German.

### **305220 German II**

*Prerequisites: German I.*

Level II incorporates all phases of language learning from Level I with a continued emphasis on spoken German.

### **309120 Mandarin Chinese I**

This course provides an introduction to the Chinese language, grammar, and culture. Students will practice listening, reading, writing, and speaking Mandarin Chinese. Students enrolled in Chinese may be eligible for the Confucius Institute Summer Camp which allows students to visit China; there is a fee for this experience. Students currently pay for air transportation and processing fees. The in-China costs of transportation, food, hotel, admission fee, and classes will be paid by CI. Pricing is subject to change.

### **309220 Mandarin Chinese II**

*Prerequisite: Mandarin Chinese I*

This is a continuation of Mandarin Chinese I skills. Students may be eligible to take the HSK (Hanyu Shuiping Kaoshi) or the Chinese Proficiency Test with a teacher recommendation. This is an international standardized exam which tests and rates Chinese language proficiency. Students receive a certificate upon passing the exam which is recognized by several organizations. A passing score is also helpful if students wish to study in China.

### **302120 Spanish I**

This course offers an introduction to the Spanish language, grammar, and culture. Memorization with long-term retention is essential. Freshmen benefit from strong English skills.

### **302220 Spanish II**

*Prerequisites: Spanish I.*

Continuation of Spanish I skills and basic grammar. NOTE: Students who passed Level I with a "D" may not retain enough grammar and vocabulary to be successful in Spanish II.

## **MATHEMATICS**

Tennessee High has fully transitioned to the Integrated Math pathway. The former traditional approach consisted of three courses: Algebra I, Geometry, and Algebra II. The new integrated approach also consists of three courses: Integrated Math I, Integrated Math II, and Integrated III. All three courses in both pathways include the same content standards. Across the three courses, students in the integrated pathway will study the same content as students that were in the traditional pathway.

In the integrated pathway, geometry standards are present in all three courses. The integrated pathway intends for connections across all conceptual categories to be made, as standards from all conceptual categories are present in each of the three courses. By doing so, the coherence of studying mathematics across the various domains in K-8 is preserved. In addition, approximately 40% of the ACT Math test contains geometry content. With geometry standards present throughout all three Integrated Math courses, students will be more familiar with these concepts when taking the ACT.

Tennessee universities will recognize a Tennessee high school diploma that represents the three courses in either pathway, plus an additional fourth course. The NCAA also recognizes the Integrated Math pathway for high school athletes.

## Math Course Sequencing

<b>Rising Freshman Requirements</b>	<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
All students enrolled in regular 8 <sup>th</sup> Grade Math or scoring below 93% average in 8 <sup>th</sup> Grade Advanced Math. (*After test results: below 90% on the Math Placement test given at the end of 8 <sup>th</sup> grade)	<b>Integrated Math IA and Integrated Math IB</b>	<b>Integrated Math IIA and Integrated Math IIB or Integrated Math II</b>	<b>Integrated Math IIIA and Integrated Math IIIB or Integrated Math III</b>	<b>Bridge Math (ACT below 19) or Statistics</b>
Guidelines prior to testing: 93% or above average in 8 <sup>th</sup> Grade Advanced Math. (*after test results: 90% or above on the Math placement test given at the end of 8 <sup>th</sup> grade)	<b>Integrated Math I Honors</b>	<b>Integrated Math II Honors and Integrated Math III Honors</b>	<b>Pre-Calculus Honors</b>	<b>AP Calculus</b>
Students earning credit in Math 1 and scoring at Mastered or On Track level on Math 1 EOC.	<b>Integrated Math II Honors</b>	<b>Integrated Math III Honors</b>	<b>Pre-Calculus Honors</b>	<b>AP Calculus</b>

**311810 Integrated Math II (Honors)**

*Prerequisite:* Credit in Math 1 and scoring at Mastered or On Track level on Math 1 EOC. This course is the second of three courses in a series that uses a more integrated approach to cover the same algebra and geometry concepts and skills that are included in the traditional three course series. The problem situations, models, and technology used will foster connections among the various strands of mathematics and develop concepts from multiple perspectives. Projects will be required.

**311710 Integrated Math 1 (Honors)**

*Prerequisite:* Scoring 93% or above in 8<sup>th</sup> grade Math and scoring 90% or above on the Math 1A placement exam

This is the first of three course in a series that uses a more integrated approach to cover the same algebra and geometry concepts and skills that are included in the traditional three course series. The problem situations, models, and technology used will foster connections among the various strands of mathematics and develop concepts from multiple perspectives.

**313230 Integrated Math I Part A**

*Prerequisite:* Students enrolled in 8th grade math or scoring below 90% on the Math 1A placement exam

This course is part A of the first of three courses in a series that uses a more integrated approach to cover the same algebra and geometry concepts and skills that are included in the traditional three course series. The problem situations, models, and technology used will foster connections among the various strands of mathematics and develop concepts from multiple perspectives. (Students will receive an elective credit for this course).

**313240 Integrated Math I Part B**

*Prerequisite:* Integrated Math 1 Part A.

This course is part B of the first of three courses in a series that uses a more integrated approach to cover the same algebra and geometry concepts and skills that are included in the traditional three course series. The problem situations, models, and technology used will foster connections among the various strands of mathematics and develop concepts from multiple perspectives. (Students will receive a math credit after successfully completing Integrated Math I Part B).



## PHYSICAL EDUCATION

### 330320 Wellness

A combination of health, family life and physical education. The course also contains a segment of the required classroom hours that apply to Driver Education.

## SCIENCE

### Science Course Sequencing

<b>Rising Freshman Requirements</b>	<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
Students placed in Tier Intervention for English.	<b>No Science <i>or</i> follow Biology path with teacher recommendation</b>	<b>Biology IA and Biology IB</b>	<b>Physical Science and Physics</b>	<b><i>No Science</i></b>
"B" average or below in 8 <sup>th</sup> grade Science class.	<b>Biology</b>	<b>Physical Science</b>	<b>Chemistry <i>or</i> Physics</b>	<b>Ecology</b>
"A" in 8 <sup>th</sup> grade science, score of 4 on work ethic by 8 <sup>th</sup> grade Science teacher, and scoring at or above the 7 <sup>th</sup> national percentile on STAR Reading.	<b>Honors Biology</b>	<b>Honors Chemistry</b>	<b>Chemistry II Pre-AP and AP Chemistry <i>or</i> Biology II Pre-AP and AP Biology <i>or</i> Honors Physics and AP Physics</b>	<b>Chemistry II Pre-AP and AP Chemistry <i>or</i> Biology II Pre-AP and AP Biology <i>or</i> Honors Physics and AP Physics</b>

**321010 Biology (Honors)**

*Prerequisite: "A" in 8<sup>th</sup> grade science, score of 4 on work ethic by 8<sup>th</sup> grade Science teacher, and scoring at or above the 7<sup>th</sup> national percentile on STAR Reading.*

This course is the study of life at the biochemical, cellular, and organism levels. It emphasizes interrelationships among living organisms and the environment. This course concludes with a state-mandated EOC exam.

**321020 Biology**

*Prerequisite: B or below in 8<sup>th</sup> grade science.*

Biology is the study of elementary biochemistry, the cell, metabolism, basic genetics, evolutionary theory, and ecology. This course concludes with a state-mandated EOC exam.

**SOCIAL STUDIES****Social Studies Course Sequencing**

<b>Rising Freshmen Requirements</b>	<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
	<b>World History w/ Geography</b>		<b>U.S. History w/ Geography</b>	<b>Government/ Economics</b>
	<b>World History w/ Geography</b>	<b>Psychology or Contemporary Issues</b>	<b>U.S. History w/ Geography</b>	<b>Government/ Economics</b>
93 or higher grade for the year in 8 <sup>th</sup> grade social studies, score of 4 on work ethic by 8 <sup>th</sup> grade Social Studies teacher, STAR Reading score at or above the 75 <sup>th</sup> national percentile	<b>AP Human Geography</b>	<b>Psychology or AP Psychology</b>	<b>AP U.S. History</b>	<b>Honors Government/ Economics</b>

**341520 World History and Geography**

This course covers a study of world history from the French Revolution to the Contemporary World and subsequent human geographic issues that dominate the global community.

### **345000 AP Human Geography**

*Prerequisite: 93 or higher grade for the year in 8<sup>th</sup> grade social studies, score of 4 on work ethic by 8<sup>th</sup> grade Social Studies teacher, STAR Reading score at or above the 75<sup>th</sup> national percentile. Freshman or sophomores*

This is an intensive, fast-paced study of the world with an emphasis on its cultural characteristics and coverage of its physical characteristics. Topics covered in this class include population, cultural patterns, political organization of space, agricultural and rural land use, industrialization, economic development and urbanization. This is a reading and writing intensive class. Expected reading for the course is 40-60 pages per week at home with at least 1-2 at home study hours per day. A major goal is preparation for the AP Human Geography exam that can equate to college credit for the course. Completion of the AP exam is required to receive AP credit for the course. Students who do not take the AP exam will receive Honors credit for the course.

## **SOCIAL STUDIES ELECTIVES**

### **343520 Contemporary Issues**

This course is a study of human interactions and issues facing modern society.

## **ARMY JUNIOR ROTC**

**These elective courses may be taken a total of eight terms and should be considered by all. A student may elect to enroll in two terms of JROTC and earn two credits, which would substitute for one credit of Wellness. The mission of Army Junior ROTC is “To Motivate Young People to be Better Citizens.” This mission focus, coupled with a fun and unique learning environment, offers students a wide variety of opportunities to succeed and to excel. A vast majority of students elect to re-enroll in JROTC each semester. Army Junior ROTC is not intended to recruit for the armed forces. Enrolled cadets are required to wear the Army-provided uniform one day a week. Male cadets must maintain their hair in accordance with the minimum mandated requirements. Junior ROTC extracurricular activities are conducted after school and include such competitive teams as Drill, Color Guard, Rifle Marksmanship, Raider, and Orienteering.**

### **333110 Leadership Education Training 1 (LET 1)**

Student cadets will learn and demonstrate the leadership skills needed to lead other cadets in drill, physical training, squad and platoon competition, conflict resolution, teamwork, dealing with peer pressure, and interpersonal relationships. Students will be introduced to the Army’s organization and structure, customs and courtesies, and missions. Students will apply leadership techniques based upon each cadet’s own personal traits and leadership style. Numerous optional cadet extracurricular activities are available.

## **333220 Leadership Education Training 2 (LET 2)**

*Prerequisite: LET 1*

Student cadets will continue to apply their leadership skills as they advance in both rank and experience. Students will learn about first aid, map reading, drug awareness, decision-making skills, American history and government, human rights, and international relations. Numerous optional cadet extracurricular activities are available.

## **CAREER AND TECHNICAL EDUCATION**

\* Courses marked @ are dual credit course offerings with Northeast State Community College (NeSCC). These are high school courses but students have the opportunity to earn college credit hours with NeSCC if they attain a passing score on the articulation examination.

## **INTRODUCTION TO CAREERS**

### **616620 Career Exploration**

Career Exploration is an introductory course designed to assist students in (a) discovering their personal strengths and abilities, (b) understanding opportunities available to them in different career areas, and (c) practicing skills necessary to excel in the workforce and in postsecondary learning. Upon completion of this course, proficient students will know and exhibit soft skills (e.g. teamwork, creative thinking, and problem solving), as well as more technical skills (e.g. resume building and written communications) related to career exploration and experience. Students will also learn about and be exposed to existing CTE pathways and elective focus options.

## **ADVANCED MANUFACTURING**

### **Machining Technology**

#### **592220 Principles of Manufacturing**

Principles of Manufacturing is the first course in the Machining Technology program of study and is designed to provide students with exposure to various occupations and pathways in the Advanced Manufacturing career cluster. Throughout this course, students will learn to use a variety of hand tools, power tools, computer assisted and manually operated machines, and welders to complete assignments and projects. Students will develop an understanding of the general steps involved in the manufacturing process and master the essential skills to be an effective team member in a manufacturing production setting. Course content covers basic quality principles and processes, blueprints and schematics, and manufacturing systems. Upon completion of this course, proficient students will advance from this course with a solid understanding of how manufacturing combines design and engineering, materials science, process technology, and quality.

## **592920 Principles of Machining I @ (NeSCC – MATT 1510)**

*Prerequisite: Principles of Manufacturing*

Principles of Machining I is the second course in the Machining Technology program of study. This course is designed to provide students with the skills and knowledge to be effective in production environments as a machinist, CNC operator, or line supervisor. The course is contextual by design and throughout this course students will demonstrate safety practices concerning machining technology, proper measurement and layout techniques, reading and interpreting drawings and blueprints, production design processes, and quality control procedures. Students will be immersed in real-world machining simulations, tour local manufacturing facilities, and will create and test projects using various metal materials. Upon completion of this course, students will be prepared for the NeSCC dual credit articulation examination in *Blueprint Reading – MATT 1510* and the National Institute for Metal Working Skills (NIMS) – Level 1 industry certification.

## **ARCHITECTURE AND CONSTRUCTION**

### **Residential & Commercial Construction**

#### **607321 Fundamentals of Construction**

Fundamentals of Construction is the first course in the Residential & Commercial Construction program of study. It is designed to be a foundational course covering essential knowledge, skills, and concepts required for careers in construction. Throughout this course, students will learn how to use hand and power tools safely and effectively in construction, interpret construction drawings to complete projects, and demonstrate proper measurement and application of mathematical concepts. Course content also covers an introduction to building systems and materials, an overview of the construction industry, describe various construction fields, and outline the steps necessary to advance in specific construction careers. Upon completion of this course, students will be prepared for the National Center for Construction Education and Research (NCCER) Core Curriculum industry certification.

#### **616220 Residential and Commercial Construction I**

*Prerequisite: Fundamentals of Construction*

Residential & Commercial Construction I is the second course in the Residential & Commercial Construction program of study. This course is intended to prepare students for careers in construction by developing an understanding of the different phases of a construction project from start to finish. Throughout this course, students will explore the earlier phases of building construction, including site layout, foundation systems, concrete, framing systems, and electrical systems. Students will complete projects in concrete and masonry, wood framing construction, and even install proper electrical wiring while safely employing tools and interpreting construction drawings to complete projects. Emphasis is placed on demonstrating proper safety and accuracy while deepening their understanding of business and project management in the construction industry. Upon completion of this course, students will be prepared for the NCCER Construction Technology industry certification.

## **ARTS, INFORMATION, AND COMMUNICATION**

### **Digital Arts & Design**

#### **608420 Digital Arts and Design I**

Digital Arts & Design I is the entry level and foundational course for students interested in graphic art and design professions. The primary aim of this course is to build a strong understanding of the principles and elements of design and the design process. Students will acquire basic skills in illustration, typography, and photography. Various printing and finishing processes are discussed and used in real-world applications. Students will produce real-world jobs for the school system using equipment found in the professional printing industry. Graphic Design is taught using the Adobe Creative Suite software package, specifically Photoshop, InDesign and Illustrator. Students will create layouts for use in real world applications, along with personal projects.

#### **608620 Digital Arts and Design II**

*Prerequisite: Digital Arts and Design I*

This is the second course in the Digital Arts & Design program of study and builds on the basic principles and design process learned in Digital Arts and Design I. Throughout this course, students will learn advanced skills in printing and finishing design projects. Students will take a more active role in setup, planning, and final production in a workplace setting through our student-based enterprise. Students will also learn advanced skills in Adobe Creative Suite by creating more in depth and complicated designs, including creating photographs, illustrations, and multipage layouts.

### **TV Broadcasting**

#### **604922 TV Broadcasting I**

This an entry-level course will prepare students for the media industry. Students will learn about audio, video, journalism, and TV broadcasting within the media industry. Upon completion of this course, students will be prepared to pursue advanced coursework in either audio and video technology or journalism and broadcasting. Students will learn how to edit using the latest in industry software, and students will produce videos and newscasts that will air to the school during **Viking News**.

#### **605022 TV Broadcasting II**

*Prerequisite: TV Broadcasting I*

TV Broadcasting II is the second course in the TV Broadcasting program of study. This course content focuses on broadcast production technologies utilizing simulated and/or real-life projects. This course centers on production of various broadcasting products including, commercials, music, and news. The student will gain valuable insight into the many facets of broadcast production, including concept creation, scripting, sound design, visual design, engineering, editing, budgeting, and producing, as well as exploring some of the latest advances in industry technology. Upon completion of this course, students will be prepared to pursue advanced coursework. Students will continue to learn about editing software and will produce newscasts for **Viking News**.

# **BUSINESS MANAGEMENT AND ADMINISTRATION**

## **Office Management**

### **589120 Computer Applications with Personal Finance**

Computer Applications is the introductory course for the Office Management program of study. While most high school students are, to some degree, familiar with business related technology, this course will take an in-depth look at how technology is used in business and in the workplace. Students will learn common computing fundamentals and concepts involved in the use of business related software such as word processing, spreadsheets, databases, and presentations. In addition, students will have engaged in key critical thinking skills and will have practiced ethical and appropriate behavior required for the responsible use of technology in the workplace and the benefits the use of the internet offers businesses.

### **588820 Business Communications @ (NeSCC – INFS 1010)**

Business Communications is the second course in the Office Management program of study and is designed to develop students' effective oral and electronic business communications skills in the 21st century. This course develops skills in multiple methods of communications, including social media, electronic publishing, design, layout, composition, and video conferencing. Throughout this course, students will be able to demonstrate successful styles and methods for professional business communications using the proper tools to deliver effective publications and oral presentations. Upon completion of this course, students will be prepared for the NeSCC dual credit articulation examination in *Computer Applications – INFS 1010*.

## **Computer Science**

**Computer Science Foundations (609520) is a prerequisite course for all Computer Science programs of study.**

### **609521 Computer Science Foundations**

Computer Science Foundations is the introductory course for both Coding and Networking Systems programs of study. This course is intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Programming and Software Development, and Web Design. Course contents include: computer operating systems, computer hardware, a basic computer build, computer troubleshooting, computer programming, drone programming, video game development, network security, and working at the THS Student Helpdesk. Upon completion of this course, students will be prepared for the CompTIA IT Fundamentals industry certification.

## Coding

### **609821 Coding I**

*Prerequisite: Computer Science Foundations*

Coding I is the initial course in the Coding program of study and is intended to teach students the basics of computer programming. The course focuses on practicing standard programming techniques and learning the logic tools and methods typically used by programmers to create simple computer applications. Upon completion of this course, proficient students will be able to solve problems by planning multistep procedures; write, analyze, review, and revise programs, converting detailed information from workflow charts and diagrams into coded instructions in a computer language; and will be able to troubleshoot/debug programs and software applications to correct malfunctions and ensure their proper execution.

## Networking Systems

### **609420 Computer Systems**

*Prerequisite: Computer Science Foundations*

Computer Systems is designed to provide an introduction to the IT industry and hands on exposure to personal computers, mobile devices, hardware, software, and operating systems. The class offers the following features and benefits:

- Students develop a working knowledge of how computers operate, how to build computers, and how to troubleshoot hardware and software issues.
- The course emphasizes the hands on application of skills and procedures needed for hardware and software installations, upgrades, and troubleshooting systems.
- Students gain valuable hands on experience working at the THS Student Helpdesk.

Upon completion of this course, students will be prepared for the NeSCC dual credit articulation examination in *Microcomputer Operating Systems – CISP 1290* and the CompTIA A+ industry certification.

## HEALTH SCIENCE

**Health Science Education (599820) and Anatomy and Physiology (599120) are prerequisite courses for all Health Science Programs of Study.**

### **599820 Health Science Education @ (NeSCC – OFMG 1100)**

Health Science Education is the initial foundational course for all of the Health Science programs of study and designed to prepare students to pursue careers in Health Care. Upon completion of this course, students will be able to identify careers in health care related fields, compare and contrast the features of healthcare systems, explain the legal and ethical ramifications of the healthcare setting, and begin to perform foundational healthcare skills. While this course does not cover all medical terminology, some students who participate in HOSA or request other additional coursework may be prepared for the NeSCC dual credit articulation examination in *Medical Terminology – OFMG 1100*



## **HUMAN SERVICES**

### **Cosmetology**

#### **598321 Cosmetology I**

Cosmetology I is the introductory course in the Cosmetology program of study. During this course, students will learn safety procedures in salon environments, fundamental theory and practical applications of hair design, nail structure, and cosmetic procedures. This foundational course emphasizes careers in the cosmetology field, environmental issues related to the cosmetology industry, and protection of the public and designers. Throughout the Cosmetology program of study, students may acquire hours to transfer to a postsecondary institution to complete the requirements needed to be eligible to take the Tennessee State Board of Cosmetology examination for a Tennessee Cosmetology License.

#### **598621 Cosmetology II**

*Prerequisite: Cosmetology I*

Cosmetology II is the second course in the Cosmetology program of study and prepares students for work-related skills and advancement into the field of cosmetology. During this course, students will have the opportunity to develop more advanced theoretical knowledge and skills in the principles of hair design, nail artistry, and cosmetic applications. Throughout the Cosmetology program of study, students may acquire hours to transfer to a postsecondary institution to complete the requirements needed to be eligible to take the Tennessee State Board of Cosmetology examination for a Tennessee Cosmetology License.

#### **598421 Cosmetology III**

*Prerequisite: Cosmetology I; Cosmetology II*

Cosmetology III is the final course in the Cosmetology program of study and is designed to prepare students for careers within the personal care industry, including hairstylist, colorist, and nail technician. This course builds on the knowledge and skills from previous courses in the principles of hair design to expose students to the chemistry of color application and allow students to work more independently in a salon setting. Throughout the Cosmetology program of study, students may acquire hours to transfer to a postsecondary institution to complete the requirements needed to be eligible to take the Tennessee State Board of Cosmetology examination for a Tennessee Cosmetology License.

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

**Principles of Law, Corrections, and Security (615520) and Criminal Justice I (598720) are prerequisite courses for all Law, Public Safety, Corrections & Security Programs of Study.**

### **615520 Principles of Law, Corrections, and Security**

Principles of Law, Corrections, and Security is the introductory and foundational course to the Law Enforcement Services and the Legal and Correctional Services programs of study and is designed to prepare students to pursue careers in the fields of law enforcement or other legal services. Throughout this course, students will be exposed to careers in these fields, summarize the laws that govern the application of justice, and draw key connections between the history of the criminal justice system and the modern legal system. In addition, students will model the professional, moral, and ethical standards required of professionals in the fields of law enforcement and legal services.

### **598720 Criminal Justice I**

*Prerequisite: Principles of Law, Corrections, and Security*

Criminal Justice I is the second foundational course in Law Enforcement Services and the Legal and Correctional Services programs of study. It serves as a comprehensive survey of how the law enforcement, legal, and correctional systems interact with each other in the United States. Students will gain an understanding of the context of local, state, and federal laws through the analysis of both famous and lesser known legal cases, develop investigative skills pertaining to basic crime scenes and incident documentation such as fingerprinting and blood splatter analysis. This course emphasizes the importance of communications and professionalism in law enforcement and exposes students to new and emerging technology used in law enforcement and legal fields.

## **Science, Technology, Engineering, and Mathematics (STEM)**

### **Project Lead The Way**

#### **605420 Introduction to Engineering (PTLW)**

This is the foundational course to the Project Lead The Way – STEM program of study. In this course, students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

#### **605220 Principles of Engineering (PTLW)**

*Prerequisite: Introduction to Engineering*

The Principles of Engineering course is the second course in the Project Lead The Way – STEM program of study. Through problems that engage and challenge, students explore a broad range of exciting engineering topics, including complex mechanisms, the strength of structures such as buildings, bridges, and materials, and automation through robotics. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

## **TRANSPORTATION, DISTRIBUTION, AND LOGISTICS**

### **587920 Maintenance and Light Repair I (MLR I)**

Maintenance and Light Repair I (MLR I) is the first course in the Automotive Maintenance and Light Repair program of study and serves as a foundation of safety skills and knowledge on becoming a professional service technician. Students explore career opportunities and requirements of a professional service technician and emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, shop operations, basic engine fundamentals, and basic technician skills.

### **588020 Maintenance and Light Repair II (MLR II) @ (NeSCC – AUTO 2140)**

*Prerequisite: MLR I*

The Maintenance and Light Repair II (MLR II) is the second course in the Automotive Maintenance and Light Repair program of study. This course builds on the foundational skills of MLR I but focuses on the study of automotive general electrical systems, starting and charging systems, batteries, lighting, and electrical accessories. Students will engage in various automotive electrical projects related to motorcycles, cars, SUVs, and light trucks. Upon completion of this course, students will be prepared for the NeSCC dual credit articulation examination in *Automotive Electrical – AUTO 1120*.