

RCCSD

# COURSECATALOG



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# PLANNING & SCHEDULING

## ABOUT THIS CATALOG

This catalog includes information on the following Red Clay Consolidated School District high schools:

- Alexis I. du Pont High School (AIHS),
- Cab Calloway School of the Arts (CCSA),
- Conrad Schools of Science (CSS),
- John Dickinson High School (JDHS) and
- Thomas McKean High School (TMHS).

For information on Red Clay's other high school options including The Charter School of Wilmington, Delaware Military Academy, First State School and James H. Groves Adult Education High School, please visit [redclayschools.com](http://redclayschools.com).

## COURSE AVAILABILITY

All courses and offerings listed in this catalog are subject to changes in availability based on interest expressed by the student body during the spring course selection period. It is likely that some courses mentioned in this catalog will not be held if the number of students requesting a course is low.

Although every effort is made to accommodate course requests, students may be required to select between courses that present a conflict within their schedule. If this occurs, students are encouraged to speak to their parents and seek advice from their school counselor to review options for resolving these issues.

## COURSE SELECTION

School counselors provide course selection materials to high school students typically in March through April. Students use the materials to plan their courses for the next year. Students will meet with their school counselor and plan to schedule courses for the next year. The information gathered at these times will be used to make decisions related to the courses that will be scheduled, the number of sections to be offered, and the resources allocated in each area.

### COURSE SELECTION PROCESS

- Counselors deliver course selection materials in class for students to review.
- Students discuss course options with parents, teachers and counselors.
- Students choose a full schedule.
- Students meet with their counselor individually to finalize selections.

Students and parents may contact the school counselor with questions about course selection.

# PLANNING & SCHEDULING

## SCHEDULE CHANGES

Students are expected to request and verify appropriate course selections in the spring and request any schedule changes immediately after receiving their schedule in the fall.

Schedule changes may be made during the school's drop/add window without a penalty. Dropping a course after the drop/add window will result in a Withdrawal F for that marking period and an F for additional grade reporting cycles. This grade will impact GPA calculations.

When considering schedule changes, students should make an appointment with their school counselor to review options and to complete the course change request process.

## CHANGING A COURSE LEVEL

Students may request a change in course level with parent and administrator approval. The grade determination for lowering a course level will be made at the time of the change in level.

## DISTANCE LEARNING

Red Clay offers a number of distance learning courses for high school students. These courses are taught by one instructor as synchronous courses using video and computer technology to reach multiple schools.

This platform allows students to access courses that may not be offered by an instructor at their school.

## PROFILE OF A RED CLAY GRADUATE

The Red Clay Consolidated School District is on a mission to prepare today's learners to thrive in tomorrow's world.

Red Clay students will graduate on time and will strive to reach the following future-ready benchmarks:

- Complete Algebra 2 with a C or better
- Earn a mathematics credit during senior year
- Pass at least one college- or career-level course
- Complete a graduation pathway
- Complete 3 years of a World Language, with proficiency
- Achieve SAT college- and career-readiness benchmarks (Evidence-Based Reading and Writing: 480, Math: 530)
- Graduate as empathetic, engaged individuals with hope about how they will impact the world and be informed citizens

# COURSE LEVELS

## COLLEGE PREPARATORY COURSES

College preparatory courses are designed to provide a rigorous curriculum aligned with state standards and the student's interests. These classes prepare a student for a variety of post-secondary experiences including higher education and the workforce. College preparatory courses are indicated with a (C) next to the course number.

## HONORS COURSES

Honors courses are designed to challenge students who are considering applying to highly competitive colleges and universities. Students are expected to use independent learning and study skills, and complete additional projects presented by the instructor. Students should consult a school counselor before enrolling in honors courses. Honors courses are indicated with an (H) next to the course number.

## ADVANCED PLACEMENT (AP) COURSES

The Advanced Placement (AP) Program has enabled millions of students to take college-level courses and earn college credit while still in high school. AP Exams are given in May. Students who earn a qualifying score on an AP Exam are typically eligible, in college, to receive credit, placement into advanced courses, or both.

Every aspect of AP course and exam development is the result of collaboration between AP teachers and college faculty who work together to develop exams, set scoring standards and score the exams. College faculty review every AP teacher's course syllabus.

AP courses are designed to challenge students who demonstrate a consistent record of outstanding academic achievement. Rich course material, vibrant classroom discussions and demanding assignments help students develop the content mastery and critical thinking skills that are expected of college students.

In Red Clay, students who enroll in AP courses are expected to take the AP Exam. Scholarships are available to offset the cost of AP Exam fees for families in financial need.

*See Earning College Credit in High School (p. 9) for a complete list of AP offerings at each school.*

## INTERNATIONAL BACCALAUREATE (IB) COURSES

With a goal of developing inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect, the International Baccalaureate (IB) Programme offers challenging programs of international education and rigorous assessment.

Red Clay offers two IB programs at John Dickinson High School: the Middle Years Program (IB MYP) for students in grades 6 through 10, and the IB Diploma Programme for juniors and seniors.

*See Earning College Credit in High School (p. 9) and Career Clusters, Pathways & Programs of Study (p. 27) for more about the IB Diploma Programme.*

## DUAL ENROLLMENT COURSES

Dual enrollment allows high school students to take college-level courses at a reduced cost at their high school through partnerships between the Red Clay Consolidated School District and the Delaware College of Art and Design, Delaware Tech, the University of Delaware and Wilmington University. Students earn both high school credit and college credit by passing the class.

Course fees are estimated, but may be subject to change due to tuition increases. Students should consult their school counselor for final costs.

- Delaware College of Art and Design: \$300 per course
- Delaware Tech: \$100 per course
- University of Delaware: \$640-\$650 per course
- Wilmington University: \$100 per course

*See Earning College Credit in High School (p. 9) for a complete list of dual enrollment offerings at each school.*

# GRADING & EVALUATION

## GRADING SCALE

The grading scale is as follows:

A	B	C	D	F
90-100	80-89	70-79	60-69	< 60

## FINAL GRADES

The final course grade is the average of the four quarter grades, each with a weight value of 2, and the mid-year and final examination grades, each with a weight value of 1. Quarter and examination grades shall carry a numerical value of 4 (A), 3 (B), 2 (C), 1 (D) and 0 (F). The numerical average is converted to a letter grade as follows:

A	B	C	D	F
> 3.4	2.5-3.4	1.5-2.4	0.6-1.4	< 0.6

Students receiving three marking period Fs in a course will not receive credit even if sufficient quality points have been attained.

## GRADE POINT AVERAGE

The grade point average (GPA) is a weighted average that is calculated by using only the grades in the academic core courses of English, mathematics, social studies, science, world language, and any Advanced Placement (AP) course.

A grade of C or better in an AP course where the AP examination is taken receives 1.5 additional quality points in the calculation of the GPA.

A grade of C or better in an honors level course receives 1 additional quality point in the calculation of the GPA.

In cases where a student in an AP course chooses not to take the AP examination, the course designation will then be changed to "Accelerated" and only 1 additional quality point will be awarded.

The weighted, cumulative GPA is used to determine class rank. To determine eligibility for honor roll status, an unweighted GPA that includes grades in all courses that receive letter grades of A through F is used.

## CLASS RANK

Final class rank is based on weighted GPA and is determined at the end of the third marking period of the student's senior year.

## ATHLETIC ELIGIBILITY

Athletic eligibility is determined by DIAA eligibility guidelines. Learn more at [doe.k12.de.us](http://doe.k12.de.us).

## PROMOTION

Promotion from grade 9 to 10 requires a minimum of 6 credits including:

- English 1 credit
- Mathematics 1 credit
- Social Studies 1 credit
- Science, World Language, Pathway or Physical Education 3 credits

Promotion from grade 10 to 11 requires a minimum of 12 credits including:

- English 2 credits
- Mathematics 2 credits
- Science 1 credit
- Social Studies 2 credits
- Pathway 1 credit
- 4 additional credits

Promotion from grade 11 to 12 requires a minimum of 18 credits including:

- English 3 credits
- Mathematics 3 credits
- Science 2 credits
- Social Studies 3 credits
- Physical Education 0.5 credits
- World Language 1 credit
- Pathway 2 credits
- 2.5 additional credits

# GRADUATION

## GRADUATION REQUIREMENTS

Incoming freshmen will select a pathway as part of their enrollment in a Red Clay high school. Students are encouraged to work with their parents, teachers and school counselors to select the pathway that best prepares them for college and career and best matches their interests and aspirations.

The State of Delaware requires all students to complete a minimum of 24 credits to graduate; however, the Red Clay Consolidated School District has raised the bar in both rigor and academic requirements. Program specifics are explained for each school and each graduation pathway in the following sections of this catalog. Diplomas and high school transcripts will display the student's graduation pathway.

### MINIMUM GRADUATION REQUIREMENTS

- English 4 credits
- Mathematics 4 credits
- Science 3 credits
- Social Studies 4 credits
- Health 0.5 credits
- Physical Education 1 credit
- World Language 2 credits
- Pathway Requirement 3 credits
- Electives 2.5 credit

*Graduation requirements vary slightly across schools. See Our High Schools (p. 15) for a closer look at each school's requirements.*

## HIGH SCHOOL CREDIT GRANTED IN MIDDLE SCHOOL

Red Clay students have the option to take high school courses in mathematics and world language while in middle school. Students may earn credits from select middle school courses.

## THE PATHWAY REQUIREMENT

All students must fulfill a graduation pathway requirement in order to earn a Delaware High School Diploma. This requirement makes a student choose three sequential or specialized elective offerings from the visual and performing arts, academic, or career-technical education areas. All three courses must be selected in the same graduation pathway. At Alexis I. du Pont High School, John Dickinson High School and Thomas McKean High School, programs of study may meet the graduation pathway requirement.

Because completing a graduation pathway will usually take a minimum of three years, serious thought should be given to the selection and pursuit of a specific area.

## DELAWARE VOLUNTEER CREDIT

High school students may earn one elective credit toward graduation upon completing 90 hours of community service during two semesters, through the Delaware Volunteer Credit. The semesters do not have to be consecutive or in the same calendar year. Hours must be performed outside the student's regularly scheduled school day. Volunteer hours completed as part of a service group requirement may also be used toward the Delaware Volunteer Credit. Volunteer activity cannot be political or advocacy in nature. Hours must be performed at a non-profit agency in Delaware. Service must be approved by the State Office of Volunteerism. Learn more at [volunteerdelaaware.org](http://volunteerdelaaware.org).

## EARLY GRADUATION

The Early Graduation Program in Red Clay permits completion of secondary school education prior to the graduation of one's class and/or in fewer than four years. For criteria and details about the application process, please see Red Clay Consolidated School District Administrative Memorandum 7013.1, available at [redclayschools.com](http://redclayschools.com).





Diploma

This is to certify the



# EARNING COLLEGE CREDIT IN HIGH SCHOOL

*Over 50 Opportunities including AP, IB and Dual Enrollment*

# ADVANCED PLACEMENT

Advanced Placement (AP) allows high school students to take college-level courses at their high school with the potential to earn college credit by receiving a passing score on the AP subject exam, as determined by the college.

	AIHS	CCSA	CSS	JDHS	TMHS
AP Art History	●	●			●
AP Biology	●	●	●		●
AP Calculus AB	●	●	●	●	●
AP Calculus BC	●	●	●		
AP Chemistry	●	●	●		●
AP Chinese Language & Culture			●		
AP Comparative Government & Politics			●		
AP Computer Science A	●		●		
AP Computer Science Principles	●		●	●	
AP English Language & Composition	●	●	●	●	●
AP English Literature & Composition	●	●	●	●	●
AP Environmental Science	●	●	●		●
AP European History	●	●			●
AP French Language & Culture		●		●	
AP Human Geography	●	●	●		●
AP Italian Language & Culture					●
AP Macroeconomics	●	●			
AP Microeconomics	●	●			
AP Physics 1	●		●		●
AP Physics 2	●		●		
AP Physics C	●	●			
AP Psychology	●	●	●	●	●
AP Research, AP Seminar & AP Workshop		●	●		
AP Spanish Language & Culture	●	●	●	●	●
AP Spanish Literature & Culture			●		
AP Statistics	●	●	●		●
AP Studio Art		●			●
AP U.S. Government & Politics	●	●	●		
AP U.S. History	●	●	●	●	●
AP World History : Modern			●	●	●



# INTERNATIONAL BACCALAUREATE

*at John Dickinson High School*

## WHAT IS IB?

The International Baccalaureate (IB) Diploma Programme at John Dickinson High School is a two-year, pre-college diploma program that helps prepare students aged 16 to 19 for higher education in the United States and overseas through a combination of advanced content knowledge and a focus on the development of critical thinking and an appreciation of global issues.

The IB Diploma Programme is a rigorous course of study for highly motivated students in grades 11 and 12, with student work graded on global standards set by assessors around the world. An IB diploma is internationally honored by universities as proof of excellent preparedness for college work, and students have the opportunity to earn college credit by receiving a passing score on the IB subject exam, as determined by the college.

More than an academic program, IB focuses on the whole person, seeking to create inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect. Requirements include Creativity, Action and Service hours, a unique course in Theory of Knowledge and an extended essay written under the supervision of a mentor.

## APPLICATION

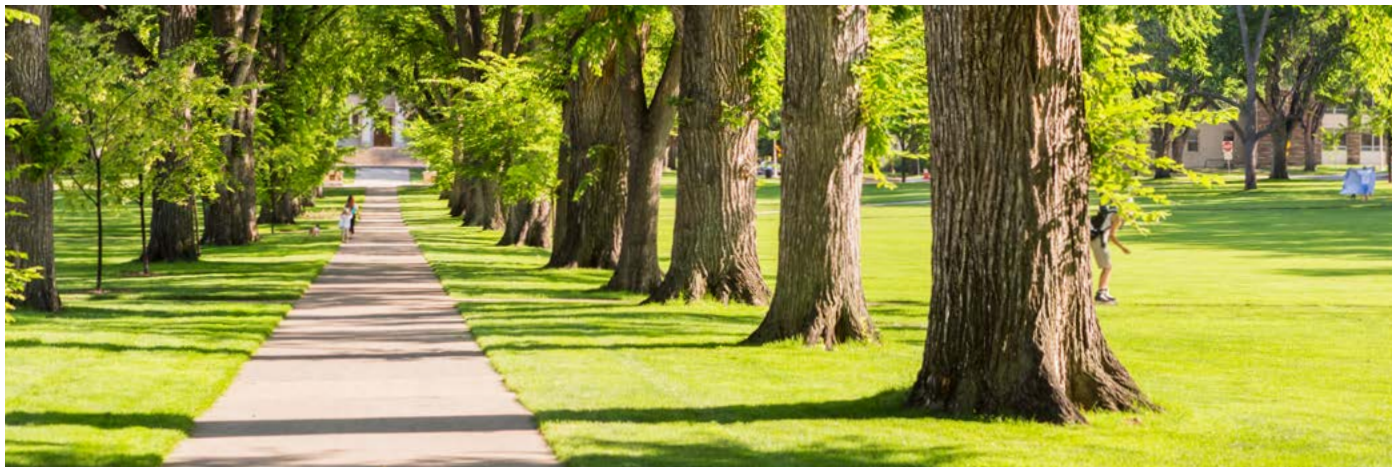
The IB Diploma Programme has an application process which considers a student's ability, capacity and motivation to handle an increased workload in high school; performance on state assessments in mathematics and reading; recent grades; and teacher recommendations.

To learn more about the IB Diploma Programme, visit [redclayschools.com/dickinson](http://redclayschools.com/dickinson).

# DUAL ENROLLMENT

Dual enrollment allows high school students to take college-level courses at a reduced cost at their high school through partnerships between the Red Clay Consolidated School District and the Delaware College of Art and Design (DCAD), Delaware Tech, the University of Delaware (UD) and Wilmington University. Students earn both high school and college credit by passing the class.

	AIHS	CCSA	CSS	JDHS	TMHS
AN 201: Animation I (DCAD)		●			
IL 212: Figure Drawing (DCAD)		●			
BIO 100: Medical Terminology (Delaware Tech)			●		
BIO 106: Basic Nutrition Concepts (Delaware Tech)	●				
BIO 110: Essentials of Anatomy & Physiology (Delaware Tech)			●		
BIO 120: Anatomy & Physiology (Delaware Tech)		●	●		●
ENG 101: Critical Thinking & Academic Writing (Delaware Tech)			●	●	●
ENG 102: Composition & Research (Delaware Tech)			●	●	●
HLH 130: Nurse Assistant Training (Delaware Tech)			●		
MAT 153: College Math & Statistics (Delaware Tech)			●	●	
PSY 121: Psychology (Delaware Tech)					●
SOC 111: Sociology (Delaware Tech)	●		●		●
ANTH 101: Introduction to Cultural & Social Anthropology (UD)		●	●		
BISC 105: Human Heredity & Development (UD)		●	●		
BUAD 100: Introduction to Business (UD)		●			
ECON 100: Economic Issues & Policies (UD)			●		
HDFS 202: Diversity & Families (UD)		●			
PHIL 100: Philosophies of Life (UD)		●	●		
BBM 102: Introduction to Business (Wilmington University)	●				
CTA 210: Computer Science (Wilmington University)	●				
ENG 121: English Composition I (Wilmington University)	●				
ENG 122: English Composition II (Wilmington University)	●				
FYE 101: First Year Experience (Wilmington University)	●				
HIS 204: World History (Wilmington University)	●				
MUS 302: History of Rock and Roll (Wilmington University)	●				
SCI 240: Concepts in Physics (Wilmington University)	●				



# EARLY COLLEGE ACADEMY

*at Alexis I. du Pont High School*

## WHAT IS THE EARLY COLLEGE ACADEMY?

The Early College Academy at Alexis I. du Pont High School (AIHS) offers incoming ninth-graders an opportunity to simultaneously earn high school credit and college credit through [Wilmington University](http://Wilmington University).

In grades 9 through 11, students take [Wilmington University](http://Wilmington University) courses led by AIHS faculty, and in grade 12, students take select courses on Wilmington University's campus. Early College Academy students are offered the same opportunities as any AIHS student, including AP and elective courses, extra-curricular activities, sports and music programs.

The Early College Academy is a highly selective program in which students can earn up to 33 college credits, the equivalent of an entire freshman year of college. [Wilmington University's](http://Wilmington University) certified corps of teachers helps to create college-level courses adjusted for high school students.

## COURSES

Courses are selected for the Early College Academy based on high transferability and state and district requirements, with consideration also given to the range of courses a student would take during the first year of college.

## APPLICATION

The Early College Academy has an application process that requires recommendations from the student's teachers, counselor and principal; a writing sample; and interviews.

To learn more about the Early College Academy, visit [redclayschools.com/aihs](http://redclayschools.com/aihs).





# OUR HIGH SCHOOLS

*Comprehensive Public High Schools and Magnet Programs*

# ALEXIS I. DU PONT HIGH SCHOOL

50 HILLSIDE RD, WILMINGTON, DE 19807  
302.651.2626 | [REDCLAYSCHOOLS.COM/AIHS](http://REDCLAYSCHOOLS.COM/AIHS)



## PATHWAYS

- Administrative Services
- AVID
- Communication Technology
- Computer Science
- Culinary Arts & Hospitality Management
- Drafting & Design
- Early College Academy
- Jobs for Delaware Graduates
- Journalism
- K-12 Teacher Academy
- Marketing
- NAF Academy of Business Information Management
- NAF Academy of Finance

## PROGRAMS OF STUDY

- Instrumental Music
- Theater
- Visual Arts
- Vocal Arts
- World Language & International Studies

## AP COURSES

- AP Art History
- AP Biology
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP Computer Science A
- AP Computer Science Principles
- AP English Language & Composition
- AP English Literature & Composition
- AP Environmental Science
- AP European History
- AP Human Geography
- AP Macroeconomics
- AP Microeconomics
- AP Psychology
- AP Physics 1
- AP Physics 2
- AP Physics C: Elec. & Magnetism
- AP Spanish Language & Culture
- AP Statistics
- AP U.S. Government & Politics
- AP U.S. History

## LANGUAGES

- French I, II, III, IV
- Italian I
- Spanish I, II, III, IV, AP

## DUAL ENROLLMENT

The following courses are offered through Delaware Tech:

- BIO 106: Basic Nutrition Concepts
- SOC 111: Sociology

The following courses are offered through Wilmington University:

- BBM 102: Introduction to Business
- CTA 210: Computer Science
- ENG 121: English Composition I
- ENG 122: English Composition II
- FYE 101: First Year Experience
- HIS 204: World History
- MUS 302: History of Rock
- SCI 240: Concepts in Physics

## CERTIFICATIONS

Through this school's pathways and programs of study, students may earn industry-recognized certifications and licenses such as:

- Delaware Certificate of Multiliteracy
- EPA Certificate
- NAFTrack Certification

# GRADUATION REQUIREMENTS

The following is a suggested sequence of courses required to graduate from Alexis I. du Pont High School.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>English</b> 4 Credits	<b>English 9</b>	<b>English 10</b>	<b>English 11</b> or higher	<b>English 12</b> or higher
<b>Mathematics</b> 4 Credits <sup>1</sup>	<b>Algebra 1</b> or higher	<b>Geometry</b> or higher	<b>Algebra 2</b> or higher	<b>Mathematics Elective</b> higher than Algebra 2
<b>Science</b> 3 Credits	<b>Biology<sup>2</sup></b>	<b>Two Science Electives</b>	→	
<b>Social Studies</b> 4 Credits <sup>3</sup>	<b>Civics / Economics</b>	<b>World History<sup>4</sup></b>	<b>U.S. History<sup>5</sup></b>	<b>Social Studies Elective</b>
<b>Health</b> 0.5 Credits		<b>Health</b>		
<b>Physical Education</b> 1 Credit	<b>Physical Education</b>	<b>Physical Education</b>		
<b>World Language</b> 2 Credits <sup>6</sup>	<b>World Language I</b> or higher <b>World Language II</b> or higher Recommended: <b>World Language III</b> or higher			
<b>Pathway Requirement</b> 3 Credit Minimum	See Career Clusters, Pathways & Programs of Study for requirements.			→
<b>Elective</b> 2.5 Credit Minimum	Students must earn at least 2.5 additional credits to graduate.			

- Algebra 1 is the first math class that counts toward graduation. One credit in Algebra 2 must be earned in high school. Students are required to earn a mathematics credit in their senior year.
- Biology is required by the State of Delaware.
- While the State of Delaware requires only three Social Studies credits, Red Clay requires an additional Social Studies credit beyond the state requirement.
- Red Clay recommends World History as the University of Delaware requires a World History credit. AP European History or WU HIS 204 World History may be substituted for World History.
- U.S. History is required by the State of Delaware.
- While the State of Delaware requires only two World Language credits of the same language, Red Clay recommends three or more credits as selective colleges and universities require three or more years of the same language. Colleges and universities do not consider credits earned in middle school.

# CAB CALLOWAY SCHOOL OF THE ARTS

100 N. DUPONT RD, WILMINGTON, DE 19807  
302.651.2700 | CABCALLOWAYSCHOOL.ORG



## PATHWAYS

- Dance
- Digital Communication Arts
- Instrumental Music
- Piano
- Strings
- Technical Theater
- Theater Arts
- Visual Arts
- Vocal Music

## PROGRAMS OF STUDY

- AP Capstone
- World Language & International Studies

## LANGUAGES

- French I, II, III, IV, AP
- Spanish I, II, III, IV, AP

## AP COURSES

- AP Art History
- AP Biology
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP English Language & Composition
- AP English Literature & Composition
- AP Environmental Science
- AP European History
- AP French Language & Culture
- AP Human Geography
- AP Macroeconomics
- AP Microeconomics
- AP Physics C: Electricity & Magnetism
- AP Psychology
- AP Seminar
- AP Spanish Language & Culture
- AP Statistics
- AP Studio Art
- AP U.S. Government & Politics
- AP U.S. History

## DUAL ENROLLMENT

The following courses are offered through the Delaware College of Art and Design:

- AN 201: Animation I
- IL 212: Figure Drawing

The following course is offered through Delaware Tech:

- BIO 120: Anatomy & Physiology

The following courses are offered through the University of Delaware:

- ANTH 101: Introduction to Social & Cultural Anthropology
- BISC 105: Human Heredity & Development
- BUAD 100: Introduction to Business
- HDFS 202: Diversity & Families
- PHIL 100: Philosophies of Life


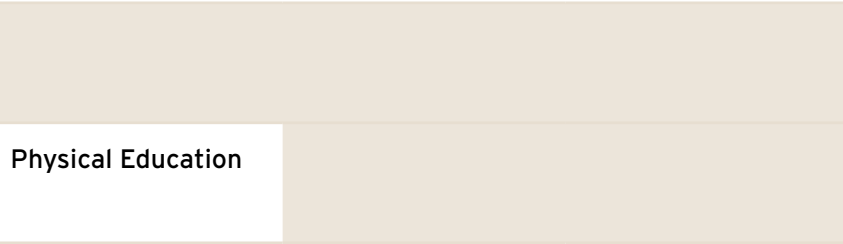

## CERTIFICATIONS

Through this school's pathways and programs of study, students may earn industry-recognized certifications and licenses such as:

- Delaware Certificate of Multiliteracy

# GRADUATION REQUIREMENTS

The following is a suggested sequence of courses required to graduate from Cab Calloway School of the Arts.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>English</b> 4 Credits	<b>English 9</b>	<b>English 10</b> or higher	<b>English 11</b> or higher	<b>English 12</b> or higher
<b>Mathematics</b> 4 Credits <sup>1</sup>	<b>Algebra 1</b> or higher	<b>Geometry</b> or higher	<b>Algebra 2</b> or higher	<b>Mathematics Elective</b> higher than Algebra 2
<b>Science</b> 3 Credits	<b>Physical Earth Science</b>	<b>Biology<sup>2</sup></b>	<b>Science Elective</b>	
<b>Social Studies</b> 4 Credits <sup>3</sup>	<b>Civics/ Economics</b>	<b>World History<sup>4</sup></b>	<b>U.S. History<sup>5</sup></b>	<b>Social Studies Elective</b>
<b>Health</b> 0.5 Credits	<b>Health</b>			
<b>Physical Education</b> 1 Credit	<b>Physical Education</b>			
<b>World Language</b> 2 Credits <sup>6</sup>	<b>World Language I</b> or higher <b>World Language II</b> or higher Recommended: <b>World Language III</b> or higher			
<b>Pathway Requirement</b> 3 Credit Minimum	See Career Clusters, Pathways & Programs of Study for requirements.			
<b>Electives</b> 2.5 Credit Minimum	Students must earn at least 2.5 additional credits to graduate. Students must take an arts class each year.			

- Algebra 1 is the first math class that counts toward graduation. One credit in Algebra 2 must be earned in high school. Students are required to earn a mathematics credit in their senior year.
- Biology is required by the State of Delaware.
- While the State of Delaware requires only three Social Studies credits, Red Clay requires an additional Social Studies credit beyond the state requirement.
- Red Clay recommends World History as the University of Delaware requires a World History credit. AP European History may be substituted for World History.
- U.S. History is required by the State of Delaware.
- While the State of Delaware requires only two World Language credits of the same language, Red Clay recommends three or more credits as selective colleges and universities require three or more years of the same language. Colleges and universities do not consider credits earned in middle school.

# CONRAD SCHOOLS OF SCIENCE

201 JACKSON AVE, WILMINGTON, DE 19804  
302.992.5545 | [REDCLAYSCHOOLS.COM/CONRAD](http://REDCLAYSCHOOLS.COM/CONRAD)



## PATHWAYS

- Animal Science
- Biomedical Sciences
- Biotechnology
- Computer Science
- Nursing
- Physical Therapy & Sports Medicine

## PROGRAMS OF STUDY

- AP Capstone
- Instrumental Music
- Vocal Arts
- World Language & International Studies

## CERTIFICATIONS

Through this school's pathways and programs of study, students may earn industry-recognized certifications and licenses such as:

- ACSM Certified Personal Trainer
- CNA Certification
- CPR / First Aid / AED Certification
- Delaware Certificate of Multiliteracy

## AP COURSES

- AP Biology
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP Chinese
- AP Comparative Government & Politics
- AP Computer Science A
- AP Computer Science Principles
- AP English Language & Composition
- AP English Literature & Composition
- AP Environmental Science
- AP Human Geography
- AP Physics 1
- AP Physics 2
- AP Psychology
- AP Research
- AP Seminar
- AP Spanish Language & Culture
- AP Spanish Literature & Culture
- AP Statistics
- AP U.S. Government & Politics
- AP U.S. History
- AP Workshop
- AP World History : Modern

## DUAL ENROLLMENT

The following courses are offered through Delaware Tech:

- BIO 100: Medical Terminology
- BIO 110: Essentials of Anatomy & Physiology
- BIO 120: Anatomy & Physiology
- ENG 101: Critical Thinking & Academic Writing
- ENG 102: Composition & Research
- HLH 130: Nurse Assistant Training
- MAT 153: College Math & Statistics
- SOC 111: Sociology

The following courses are offered through the University of Delaware:



- ANTH 101: Introduction to Cultural & Social Anthropology
- BISC 105: Human Heredity & Development
- ECON 100: Economic Issues & Policies
- PHIL 100: Philosophies of Life

## LANGUAGES

- Chinese (Mandarin) I, II, III, IV, AP
- Italian I
- Spanish I, II, III, IV, AP

# GRADUATION REQUIREMENTS

The following is a suggested sequence of courses required to graduate from Conrad Schools of Science.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>English</b> 4 Credits	English 9	English 10	English 11 or higher	English 12 or higher
<b>Mathematics</b> 4 Credits <sup>1</sup>	Algebra 1 or higher	Geometry or higher	Algebra 2 or higher	Mathematics Elective higher than Algebra 2
<b>Science</b> 3 Credits	Biology <sup>2</sup>	Chemistry	Science Elective	
<b>Social Studies</b> 4 Credits <sup>3</sup>	Civics/ Economics	World History <sup>4</sup>	U.S. History <sup>5</sup>	Social Studies Elective
<b>Health</b> 0.5 Credits	Health			
<b>Physical Education</b> 1 Credit	Physical Education	Physical Education		
<b>World Language</b> 2 Credits <sup>6</sup>	World Language I or higher World Language II or higher Recommended: World Language III or higher			
<b>Pathway Requirement</b> 3 Credit Minimum	See Career Clusters, Pathways & Programs of Study for requirements.			
<b>Electives</b> 2.5 Credit Minimum	Students must earn at least 2.5 additional credits to graduate.			

- Algebra 1 is the first math class that counts toward graduation. One credit in Algebra 2 must be earned in high school. Students are required to earn a mathematics credit in their senior year.
- Biology is required by the State of Delaware.
- While the State of Delaware requires only three Social Studies credits, Red Clay requires an additional Social Studies credit beyond the state requirement.
- Red Clay recommends World History as the University of Delaware requires a World History credit. AP European History and AP World History : Modern may be substituted for World History.
- U.S. History is required by the State of Delaware.
- While the State of Delaware requires only two World Language credits of the same language, Red Clay recommends three or more credits as selective colleges and universities require three or more years of the same language. Colleges and universities do not consider credits earned in middle school.

# JOHN DICKINSON HIGH SCHOOL

1801 MILLTOWN RD, WILMINGTON, DE 19808  
302.992.5500 | [REDCLAYSCHOOLS.COM/DICKINSON](http://REDCLAYSCHOOLS.COM/DICKINSON)



## PATHWAYS

- Automotive Technology
- AVID
- Computer Science
- Digital Communication Arts
- Drafting & Design
- Engineering of Robotics
- Graphic Design
- IB Diploma Programme
- Jobs for Delaware Graduates
- Processes of Design & Engineering

## PROGRAMS OF STUDY

- Instrumental Music
- Theater
- Visual Arts
- Vocal Arts
- World Language & International Studies

## LANGUAGES

- French I, II, III, IV, IB
- Spanish I, II, III, IV, AP, IB

## AP COURSES

- AP Calculus AB
- AP Computer Science Principles
- AP English Language & Composition
- AP English Literature & Composition
- AP French
- AP Psychology
- AP Spanish Language & Culture
- AP U.S. History
- AP World History : Modern

## IB COURSES

- IB Biology (HL)
- IB Chemistry (SL)
- IB English (HL)
- IB French (SL)
- IB History of the Americas (HL)
- IB Mathematical Studies (SL)
- IB Psychology (HL)
- IB Spanish (SL)
- IB Theory of Knowledge
- IB Visual Arts (HL)

*See Earning College Credit in High School and Career Clusters, Pathways & Programs of Study for more about the IB Diploma Programme.*

## DUAL ENROLLMENT

The following courses are offered through Delaware Tech:

- ENG 101: Critical Thinking & Academic Writing
- ENG 102: Composition & Research
- MAT 153: College Math & Statistics

## CERTIFICATIONS

Through this school's pathways and programs of study, students may earn industry-recognized certifications and licenses such as:

- Delaware Certificate of Multiliteracy
- EPA Certificate
- IB Diploma
- National Lead Safety For Renovation & Painting Certificate
- National OSHA Certificate

## CTE EXPLORATORY

Ninth Grade Academy students are scheduled into a Career & Technical Education (CTE) Exploratory for the first marking period.



# GRADUATION REQUIREMENTS

The following is a suggested sequence of courses required to graduate from John Dickinson High School.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>English</b> 4 Credits	<b>English 9</b>	<b>English 10</b>	<b>English 11</b> or higher	<b>English 12</b> or higher
<b>Mathematics</b> 4 Credits <sup>1</sup>	<b>Algebra 1</b> or higher	<b>Geometry</b> or higher	<b>Algebra 2, Integrated Mathematics III</b> or higher	<b>Mathematics Elective</b> higher than Algebra 2 / Integrated Mathematics III
<b>Science</b> 3 Credits	<b>Biology<sup>2</sup> or Physical Science</b>	<b>Two Science Electives</b>	→	
<b>Social Studies</b> 4 Credits <sup>3</sup>	<b>Civics/ Economics</b>	<b>World History<sup>4</sup></b>	<b>U.S. History<sup>5</sup></b>	<b>Social Studies Elective</b>
<b>Health</b> 0.5 Credits	<b>Health</b>			
<b>Physical Education</b> 1 Credit	<b>Physical Education</b>	<b>Physical Education</b>		
<b>World Language</b> 2 Credits <sup>6</sup>	<b>World Language I</b> or higher <b>World Language II</b> or higher Recommended: <b>World Language III</b> or higher			
<b>Pathway Requirement</b> 3 Credit Minimum	See Career Clusters, Pathways & Programs of Study for requirements.			→
<b>Electives</b> 2.5 Credit Minimum	Students must earn at least 2.5 additional credits to graduate.			

- Algebra 1 is the first math class that counts toward graduation. One credit in Algebra 2 /Integrated Mathematics III must be earned in high school. Students are required to earn a mathematics credit in their senior year.
- Biology is required by the State of Delaware.
- While the State of Delaware requires only three Social Studies credits, Red Clay requires an additional Social Studies credit beyond the state requirement.
- Red Clay recommends World History as the University of Delaware requires a World History credit. AP World History : Modern may be substituted for World History.
- U.S. History is required by the State of Delaware.
- While the State of Delaware requires only two World Language credits of the same language, Red Clay recommends three or more credits as selective colleges and universities require three or more years of the same language. Colleges and universities do not consider credits earned in middle school.

# THOMAS MCKEAN HIGH SCHOOL

301 MCKENNANS CHURCH RD, WILMINGTON, DE 19808  
302.992.5520 | [REDCLAYSCHOOLS.COM/MCKEAN](http://REDCLAYSCHOOLS.COM/MCKEAN)



## PATHWAYS

- Animal Science
- Audio, Radio & Video Engineering
- Automotive Technology
- AVID
- Culinary Arts & Hospitality Management
- Early Childhood Education
- Jobs for Delaware Graduates
- K-12 Teacher Academy
- Manufacturing Engineering Tech.
- Marketing
- Plant & Horticultural Sciences

## PROGRAMS OF STUDY

- Instrumental Music
- Visual Arts
- Vocal Arts
- World Language & International Studies

## LANGUAGES

- French I, II, III, IV
- Italian I, II, III, IV, AP
- Spanish I, II, III, IV, AP

## AP COURSES

- AP Art History
- AP Biology
- AP Calculus AB
- AP Chemistry
- AP English Language & Composition
- AP English Literature & Composition
- AP Environmental Science
- AP European History
- AP Human Geography
- AP Italian Language & Culture
- AP Physics 1
- AP Psychology
- AP Spanish Language & Culture
- AP Statistics
- AP Studio Art
- AP U.S. History
- AP World History : Modern

## DUAL ENROLLMENT

The following courses are offered through Delaware Tech:

- BIO 120: Anatomy & Physiology
- ENG 101: Critical Thinking & Academic Writing
- ENG 102: Composition & Research
- PSY 121: Psychology
- SOC 111: Sociology



## CERTIFICATIONS

Through this school's pathways and programs of study, students may earn industry-recognized certifications and licenses such as:

- Adobe
- American Society for Horticulture Science
- AutoDesk Inventor
- Certified Veterinary Assistant (CVA)
- Child Development Associate (CDA)
- CPR / First Aid / AED
- Delaware Certificate of Multiliteracy
- EPA
- GIS
- Hootsuite Social Media
- NACTE
- NAI CIG
- National Lead Safety for Renovation & Painting
- National OSHA
- NCCER
- Nutrient Management
- ParaPro
- Pesticide Application & Management
- Pork Quality Assurance
- Serv-Safe
- Student ASE
- Tech Prep

# GRADUATION REQUIREMENTS

The following is a suggested sequence of courses required to graduate from Thomas McKean High School.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>English</b> 4 Credits	<b>English 9</b>	<b>English 10</b>	<b>English 11</b> or higher	<b>English 12</b> or higher
<b>Mathematics</b> 4 Credits <sup>1</sup>	<b>Algebra 1</b> or higher	<b>Geometry</b> or higher	<b>Algebra 2</b> or higher	<b>Mathematics Elective</b> higher than Algebra 2
<b>Science</b> 3 Credits	<b>Physical Science</b>	<b>Biology<sup>2</sup></b>	<b>Science Elective</b>	
<b>Social Studies</b> 4 Credits <sup>3</sup>	<b>Civics/ Economics</b>	<b>World History<sup>4</sup></b>	<b>U.S. History<sup>5</sup></b>	<b>Social Studies Elective</b>
<b>Health</b> 0.5 Credits	<b>Health</b>			
<b>Physical Education</b> 1 Credit	<b>Physical Education</b>	<b>Physical Education</b>		
<b>World Language</b> 2 Credits <sup>6</sup>	<b>World Language I</b> or higher <b>World Language II</b> or higher Recommended: <b>World Language III</b> or higher			
<b>Pathway Requirement</b> 3 Credit Minimum	See Career Clusters, Pathways & Programs of Study for requirements.			
<b>Electives</b> 2.5 Credit Minimum	Students must earn at least 2.5 additional credits to graduate.			

- Algebra 1 is the first math class that counts toward graduation. One credit in Algebra 2 must be earned in high school. Students are required to earn a mathematics credit in their senior year.
- Biology is required by the State of Delaware.
- While the State of Delaware requires only three Social Studies credits, Red Clay requires an additional Social Studies credit beyond the state requirement.
- Red Clay recommends World History as the University of Delaware requires a World History credit. AP European History and AP World History: Modern may be substituted for World History.
- U.S. History is required by the State of Delaware.
- While the State of Delaware requires only two World Language credits of the same language, Red Clay recommends three or more credits as selective colleges and universities require three or more years of the same language. Colleges and universities do not consider credits earned in middle school.



# CAREER CLUSTERS, PATHWAYS & PROGRAMS OF STUDY

*Discover Your Future with 40 Paths to Success*

# OFFERINGS AT A GLANCE

	AIHS	CCSA	CSS	JDHS	TMHS
<b>AGRICULTURE &amp; NATURAL RESOURCES</b>					
Animal Science Pathway			●		●
Biotechnology Pathway			●		
Plant & Horticultural Sciences Pathway					●
<b>ARCHITECTURE, CONSTRUCTION &amp; MANUFACTURING</b>					
Drafting & Design Pathway	●			●	
Manufacturing Engineering Technology Pathway					●
Processes of Design & Engineering Pathway				●	
<b>BUSINESS MANAGEMENT &amp; ADMINISTRATION</b>					
Administrative Services Pathway	●				
Marketing Pathway	●				●
NAF Academy of Business Information Management Pathway	●				
NAF Academy of Finance Pathway	●				
<b>COMMUNICATION &amp; MEDIA</b>					
Audio, Radio & Video Engineering Pathway					●
Communication Technology Pathway	●				
Digital Communication Arts Pathway		●		●	
Journalism Pathway	●				
<b>EDUCATION &amp; HUMAN STUDIES</b>					
Early Childhood Education Pathway					●
K-12 Teacher Academy Pathway	●				●
<b>HEALTH SCIENCES</b>					
Biomedical Sciences Pathway			●		
Nursing Pathway			●		
Physical Therapy & Sports Medicine Pathway			●		

# OFFERINGS AT A GLANCE

	AIHS	CCSA	CSS	JDHS	TMHS
<b>HOSPITALITY &amp; TOURISM</b>					
Culinary Arts & Hospitality Management Pathway	●				●
<b>PERFORMING &amp; DESIGN ARTS</b>					
Dance Pathway		●			
Graphic Design Pathway				●	
Instrumental Music Pathway		●			
Instrumental Music Program of Study	●		●	●	●
Piano Pathway		●			
Strings Pathway		●			
Technical Theater Pathway		●			
Theater Arts Pathway		●			
Theater Program of Study	●			●	
Visual Arts Pathway		●			
Visual Arts Program of Study	●			●	●
Vocal Arts Program of Study	●		●	●	●
Vocal Music Pathway		●			
<b>SCIENCE, TECHNOLOGY, ENGINEERING &amp; MATHEMATICS</b>					
Automotive Technology Pathway				●	●
Computer Science Pathway	●		●	●	
Engineering of Robotics Pathway				●	
<b>ADDITIONAL PATHWAYS &amp; PROGRAMS OF STUDY</b>					
AP Capstone Program of Study		●	●		
AVID Pathway	●			●	●
Early College Academy Pathway	●				
IB Diploma Programme Pathway				●	
Jobs for Delaware Graduates Pathway	●			●	●
World Language & International Studies Program of Study	●	●	●	●	●

# ADMINISTRATIVE SERVICES PATHWAY

## BUSINESS MANAGEMENT & ADMINISTRATION

### FUTURE CAREERS

- Administrative Assistant
- Executive Assistant
- Human Resources Director
- Marketing Manager
- Office Administrator
- Office Clerk
- Office Manager
- Operations Officer



### REQUIREMENTS

#### Grade 9

Business, Finance & Marketing Essentials I

#### Grade 10

Administrative Services II

#### Grade 11

Administrative Services III

#### Grade 12

Administrative Services IV

### SUMMARY

Administrative Services is a 4-course Career & Technical Education (CTE) pathway that prepares students to thrive in today's information- and service-based economy, with a focus on making decisions, interacting effectively, using creativity to solve problems and communicating through a variety of emerging and ever-evolving technologies. Students in this pathway will be prepared to enter the workplace or to continue to pursue careers through higher education. Students are encouraged to learn how to become entrepreneurs and build the groundwork for their own business opportunities.

*Offered at AIHS*

### CREDITS

- This pathway is a minimum of 4 credits.



# ANIMAL SCIENCE PATHWAY

## AGRICULTURE & NATURAL RESOURCES

### FUTURE CAREERS

- Animal Rescue
- Animal Researcher
- Breed Analyst
- Farmer
- Veterinarian
- Wildlife Manager
- Zoo Animal Specialist



### REQUIREMENTS

#### Grade 9

Animal Science I (TMHS)

#### Grade 10

Animal Science II (TMHS)  
Vet Science I (CSS)

#### Grade 11

Animal Science III (TMHS)  
Vet Science II (CSS)

#### Grade 12

Animal Science IV (TMHS)  
Vet Science III (CSS)

### CREDITS

- This pathway is a minimum of 3 credits (CSS) or 4 credits (TMHS).
- Students in this pathway may earn industry-recognized certifications and licenses such as Certified Veterinary Assistant (CVA) and Pork Quality Assurance.

### SUMMARY

Animal Science is a 3- to 4-course Career & Technical Education (CTE) pathway that focuses primarily on livestock animals, dogs and cats, instruction on general healthcare, emergency responses and nutrition. Using materials from veterinary technician degree programs and animal production sources, this pathway provides students with a strong background in the medical field by covering topics such as sutures, bandaging, medicating and physical exams. Students will gain an understanding of industry standards in animal agriculture production and consumption.

Students work with live animals to learn handling, restraint and medical techniques. Students are taught how to evaluate animals for normal and abnormal behavior, illness and desirable conformation. They are taught to treat diseases after consulting with a veterinarian by covering topics that include bacteriology, immunology and physiology. Students will have some direct access to live animals to practice protocols and health procedures.

*Offered at CSS and TMHS*

# AP CAPSTONE PROGRAM OF STUDY

## ABOUT

The AP Capstone program provides unique research opportunities for AP students and expands access to AP courses by encouraging students to master the argument-based writing skills that the AP Capstone program develops.



## REQUIREMENTS

**Grade 10**  
AP Seminar

**Grade 11 or 12**  
AP Research

**Grades 9-12**  
4 Other AP Courses

## CREDITS

- This program is a minimum of 6 credits.
- Students in this program may earn the AP Capstone Diploma by scoring 3 or higher on AP exams in AP Seminar, AP Research and 4 additional AP courses.

## SUMMARY

AP Capstone is a College Board program that equips students with the independent research, collaborative teamwork and communication skills that are increasingly valued by colleges. This program cultivates curious, independent and collaborative scholars and prepares them to make logical, evidence-based decisions.

AP Capstone is comprised of AP Seminar and AP Research and is designed to complement and enhance the discipline-specific study in other AP courses.

In AP Seminar, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop credible and valid evidence-based arguments. In AP Research, students cultivate the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic thesis.

*Offered at CCSA and CSS*

# AUDIO, RADIO & VIDEO ENGINEERING PATHWAY

COMMUNICATION &amp; MEDIA

## FUTURE CAREERS

- Advertising Customer Service
- Audio Animator
- Camera Operations
- Director
- Production Assistant
- Radio Board Operator
- Radio Program Director
- Sound Engineer



## REQUIREMENTS

### Grade 9

Audio, Radio & Video Engineering & Design I

### Grade 10

Audio, Radio & Video Engineering & Design II

### Grade 11

Audio, Radio & Video Engineering & Design III

### Grade 12

Communication Technology Research & Development IV and Co-Op\*

\*Seniors approved for Co-Op may work in a local TV or radio station.

## SUMMARY

Audio, Radio and Video Engineering is a 4-course Career & Technical Education (CTE) pathway that concentrates on the history, theory, cultural use, and production practices of television, film, radio and digital media. Emphasis is placed on critical analysis, creative expression and an understanding of how media functions in our society. Students are the driving force behind every phase of production, including writing, directing, camera, lighting, on-air, producing and editing.

Students learn in a state-of-the-art broadcasting facility, with the opportunity to work in the fields of television and radio broadcasting at school. Seniors participate in the school's production company. This student-run business operates as a news company for all school-related matters, and also is available to New Castle County residents to hire for various projects.

Completion of this pathway includes production of an audio/visual reel for students to use in their resumes and portfolios.

*Offered at TMHS*

## CREDITS

- This pathway is a minimum of 4 credits.

# AUTOMOTIVE TECHNOLOGY PATHWAY

SCIENCE, TECHNOLOGY, ENGINEERING &amp; MATHEMATICS

## FUTURE CAREERS

- Automotive Counter Person
- Maintenance Technician
- Service Manager
- Service Writer
- Shop Owner
- Tire Installer
- Vehicle Designer
- Warranty Clerk



## REQUIREMENTS

### Grade 9

Automotive Mechanical Technology I

### Grade 10

Automotive Mechanical Technology II

### Grade 11

Automotive Mechanical Technology III (2 credits)

### Grade 12

Seniors approved for Co-Op may work in a local automotive-oriented business. (TMHS)

## CREDITS

- This pathway is a minimum of 4 credits.
- Students in this pathway may earn industry-recognized certifications and licenses such as Student ASE and Tech Prep.
- Students in this pathway may earn industry recognized certifications: Certain Entry Level ASE and G1 Vehicle Maintenance and Light Repair

## SUMMARY

Automotive Technology is a 3-course Career & Technical Education (CTE) pathway that develops the knowledge of occupational hazards and safety precaution of the trade, tools and equipment related to the trade, and the basic systems of the automobile (Steering and Suspension, Automotive Brake Systems, Engine Operation, Components and Performance, and Automotive Electrical) and how to perform proper diagnosis and repairs on those systems.

Students will have an understanding of the automotive career, post-secondary education opportunities, ASE Certifications and the various careers related to the automotive industry so they may demonstrate the skills necessary to enter the workforce as an entry-level automotive technician.

*Offered at JDHS and TMHS*

# AVID PATHWAY

## ADDITIONAL PATHWAYS & PROGRAMS OF STUDY

### ABOUT

AVID—Advancement Via Individual Determination—fosters a safe, open culture, high expectations for teachers and students, and collaboration in all classrooms. With the appropriate postsecondary preparation and a focus on soft skills that businesses need, AVID students are ready to shape their path and change our world.

### REQUIREMENTS

**Grade 9**  
AVID Elective

**Grade 10**  
AVID Elective

**Grade 11\***  
AVID Elective

**Grade 12\***  
Recommended: AVID Elective

\*Students must also complete an AP or dual enrollment course in grade 11 or 12.

### CREDITS

- This pathway is a minimum of 4 credits.



### SUMMARY

AVID is a 4-course pathway that encourages and supports students on their quest to thrive in rigorous high school coursework as they prepare for college. Students focus on organizational skills, study skills, critical thinking and learning how to ask probing questions. Students have the opportunity to receive academic help from peers and college tutors. AVID students participate in enrichment and motivational activities that help prepare them for college while also helping to improve their self-image as they become academically successful students, leaders in school and role models for their peers.

This pathway requires a special application process. Students should speak with a school counselor to learn more about this pathway.

*Offered at AIHS, JDHS and TMHS*



# BIOMEDICAL SCIENCES PATHWAY

HEALTH SCIENCES

## FUTURE CAREERS

- Biochemist
- Biophysicist
- Environmental Protection
- Life, Physical and Social Science Technician
- Medical Technician

## REQUIREMENTS

### Grade 10

Biomedical I: Principles of the Biomedical Sciences

### Grade 11

Biomedical II: Human Body Systems

### Grade 12

Biomedical III: Medical Interventions

## CREDITS

- This pathway is a minimum of 3 credits.



## SUMMARY

Biomedical Sciences is a 3-course Career & Technical Education (CTE) pathway that engages students in open-ended problem solving through the study of concepts of human medicine, physiology, genetics, microbiology and public health. This pathway prepares students for further education and careers in biomedical sciences and healthcare. This is a Project Lead The Way program.

*Offered at CSS*

# BIOTECHNOLOGY PATHWAY

## AGRICULTURE & NATURAL RESOURCES

### FUTURE CAREERS

- Microbiologist
- Soil and Plant Scientist
- Food Scientist
- Environmental Scientist
- Biopharmaceuticals
- Bioinformatics and Genomics

### REQUIREMENTS

#### Grade 9

Fundamentals of Biotechnology I

#### Grade 10

Biotechnology II

#### Grade 11

Biotechnology III

#### Grade 12

Biotechnology IV (Elective)

### CREDITS

- This pathway is a minimum of 3 credits.



### SUMMARY

Biotechnology is a 3-course Career & Technical Education (CTE) pathway that offers an overview of the field of biotechnology with an introduction to laboratory techniques used in the field. Topics include basic heredity, genetics, DNA, human genome, plant genome, and the ethical, economic, environmental, political and historical impact of biotechnology on our society. This pathway introduces principles of heredity and variation in living organisms, including a study of the nature of the genetic material and its transmission, influence of heredity and environment on the development of individual characters, and evolution of organisms and artificial selection of plant and animal varieties.

*Offered at CSS*

# COMMUNICATION TECHNOLOGY PATHWAY

COMMUNICATION & MEDIA

## FUTURE CAREERS

- Content Development and Marketing
- Digital Strategist
- Interactive Design and Production
- Marketing Manager
- Public Relations
- User Experience Designer
- Visual Designer
- Web Designer



## REQUIREMENTS

### Grade 9

Communication Technology I

### Grade 10

Communication Technology II

### Grade 11

Communication Technology III

### Grade 12

Communication Technology IV

## SUMMARY

Communication Technology is a 4-course Career & Technical Education (CTE) pathway that engages students in a wide array of creating and formatting digital media content. This pathway teaches students how to create, manipulate and design rich multimedia products through a variety of outlets. Students explore the core disciplines in the field, then move on to explore the Adobe Creative Suite.

*Offered at AIHS*

## CREDITS

- This pathway is a minimum of 3 credits.



# COMPUTER SCIENCE PATHWAY

## FUTURE CAREERS

- Applications Analyst
- Business Analyst
- Computer Engineer
- Data Modeler
- Information Technology Manager
- Software Applications Architect
- Software Engineer

## REQUIREMENTS

### Grade 9

Introduction to Computer Programming (JDHS)

### Grade 10

AP Computer Science Principles (JDHS)

Computer Science Principles (CSS)

Exploring Computer Science (AIHS)

### Grade 11

AP Computer Science A (JDHS)

AP Computer Science Principles (AIHS, CSS)

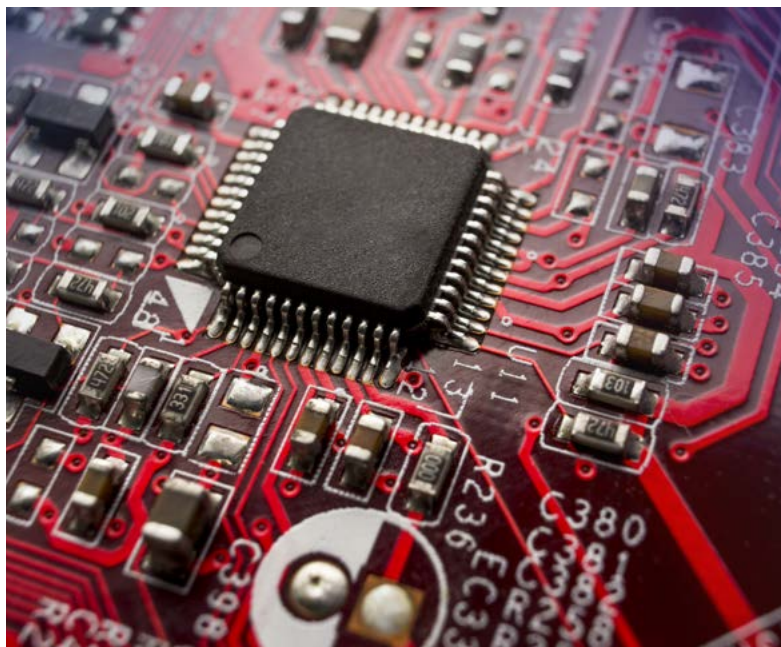
### Grade 12

AP Computer Science A (AIHS, CSS)

## CREDITS

- This pathway is a minimum of 3 credits.

## SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS



## SUMMARY

Computer Science is a 3-course Career & Technical Education (CTE) pathway that engages students in open-ended problem solving where they study computational practices such as algorithm development and programming within the context of problems relevant to their everyday lives. This pathway also introduces topics such as interface design, limitations of computers, and societal and ethical issues, preparing students for further education and careers in information technology and computer science.

*Offered at AIHS, CSS and JDHS*

# CULINARY ARTS & HOSPITALITY MANAGEMENT PATHWAY

HOSPITALITY &amp; TOURISM

## FUTURE CAREERS

- Dietitian
- Executive Chef
- Food Service Sales Manager
- Kitchen Manager
- Nutritionist
- Restaurant Manager or Owner
- Sous Chef



## REQUIREMENTS

### Grade 9

Food Preparation & Production I

### Grade 10

Advanced Food Preparation & Production (AIHS)  
Food Preparation & Production II (TMHS)

### Grade 11

Culinary Professional (AIHS)  
Food Preparation & Production III (TMHS)

### Grade 12

Food Preparation & Production IV (TMHS)

## CREDITS

- This pathway is a minimum of 3 credits (AIHS) or 4 credits (TMHS).
- Students in this pathway may earn industry-recognized certifications and licenses such as National Restaurant Association Certificate of Achievement, ServSafe Manager and CPR/First Aid/AED.

## SUMMARY

Culinary Arts & Hospitality Management is a 3 to 4-course Career & Technical Education (CTE) pathway that is supported by the National Restaurant Association Education Foundation. ProStart trains students on industry-specific skills that can be used in all aspects of the restaurant and hospitality industry along with employability skills like leadership, accountability, teamwork and responsibility.

Students learn to prepare a variety of foods, manage kitchen supplies and equipment, and become familiar with a wide array of cuisines and culinary techniques as well as aesthetic food presentation. Students are immersed in culinary tasks and performances, with the freedom to create and develop events, menus and dishes. Many students graduate with job offers and are able to blend immediately into the culinary workforce.

At TMHS, students compete in the ProStart competition and earn the opportunity to host their own restaurant from start to finish including menu development to staff management. Students are also actively involved in the running the kitchen at the Blue Rocks Stadium.

*Offered at AIHS and TMHS*

# DANCE PATHWAY

## PERFORMING & DESIGN ARTS

### FUTURE CAREERS

- Arts Administrator
- Choreographer
- Costume Designer
- Dance Company or Theater Owner
- Dance Medicine Specialist
- Dance, Yoga or Pilates Instructor
- Performer
- Physical Therapist

### REQUIREMENTS

#### Grade 9

Dance I

#### Grade 10

Dance II

#### Grade 11

Dance III

#### Grade 12

Arts Elective

### CREDITS

- This pathway is a minimum of 4 credits.



### SUMMARY

Dance is a 4-course pathway that offers a rigorous curriculum to prepare students for dance at the college or professional level. Rooted in the study of ballet and modern dance technique, the core curriculum is balanced with enriching elective courses to give the dancer a well-rounded experience. Students have the opportunity to participate in a spring performance and attend master classes with professional artists.

*Offered at CCSA*

# DIGITAL COMMUNICATION ARTS PATHWAY

COMMUNICATION &amp; MEDIA

## FUTURE CAREERS

- Communications Specialist
- Digital Strategist
- Graphic Designer
- Interactive Design and Production Specialist
- Visual Designer
- Web Designer



## REQUIREMENTS

### Grade 9

Digital Media & Imaging I

### Grade 10

Digital Media & Imaging II

### Grade 11

Digital Media & Imaging III

### Grade 12

Digital Media & Imaging IV or  
Arts Elective (CCSA)

## SUMMARY

Digital Communication Arts is a 3- to 4-course Career & Technical Education (CTE) pathway that offers a broad digital arts-based curriculum. This pathway is rooted in the traditional art world, showing the evolution into the modern high school digital arts curriculum to promote art and digital literacy in the 21st century. Courses and projects focus on exceptional creative writing, visual storytelling, cinematography, design, illustration, photography, typography and interactive media.

*Offered at CCSA and JDHS*

## CREDITS

- This pathway is a minimum of 3 credits (JDHS) or 4 credits (CCSA).
- Students in this pathway may earn industry-recognized certifications and licenses such as Adobe Certified Expert.

# DRAFTING & DESIGN PATHWAY

## ARCHITECTURE, CONSTRUCTION & MANUFACTURING

### FUTURE CAREERS

- Architect
- Building Services Technician
- Drafter
- Drafting Engineer
- Electrical Design Engineer
- Interior Designer
- Mechanical Designer
- Residential Designer



### REQUIREMENTS

#### Grade 9

Drafting & Design CAD I (AIHS)  
Architectural CAD I (JDHS)

#### Grade 10

Architectural CAD II

#### Grade 11

Architectural CAD III

#### Grade 12

Communication Technology Research &  
Development IV (AIHS)

### SUMMARY

Drafting & Design is a 3- to 4-course Career & Technical Education (CTE) pathway that teaches the principles of architecture and the latest technology to design building and complete architectural drawings. Students will master architectural skills such as preparing preliminary drawings and basic layouts, producing working drawings, and creating computer-aided drafts.

*Offered at AIHS and JDHS*

### CREDITS

- This pathway is a minimum of 3 credits.

# EARLY CHILDHOOD EDUCATION PATHWAY

## FUTURE CAREERS

- Child Care Administrator
- Director of Educational Programs
- Early Child Care Worker
- Early Childhood Researcher or Analyst
- Early Childhood Teacher
- Early Intervention Specialist
- Paraprofessional
- Teacher's Assistant



**Grade 9**  
Human Development I

**Grade 10**  
Child Development II

**Grade 11**  
Exploring Early Childhood III

**Grade 12**  
Early Childhood Education IV

## SUMMARY

Early Childhood Education is a 4-course Career & Technical Education (CTE) pathway that teaches essential skills in childcare and early childhood development and education. Students will be prepared for further study or employment related to these topics following graduation. This pathway is designed for students who are looking to pursue a career in a field related to Early Childhood Education. The pathway will introduce the foundations of childhood curriculum and provide practical experiences working with children in educational settings.

*Offered at TMHS*

## CREDITS

- This pathway is a minimum of 4 credits.
- Students in this pathway may earn industry-recognized certifications and licenses such as First Aid/CPR and progress toward Child Development Associate (CDA).

# EARLY COLLEGE ACADEMY PATHWAY

## ADDITIONAL PATHWAYS & PROGRAMS OF STUDY

### ABOUT

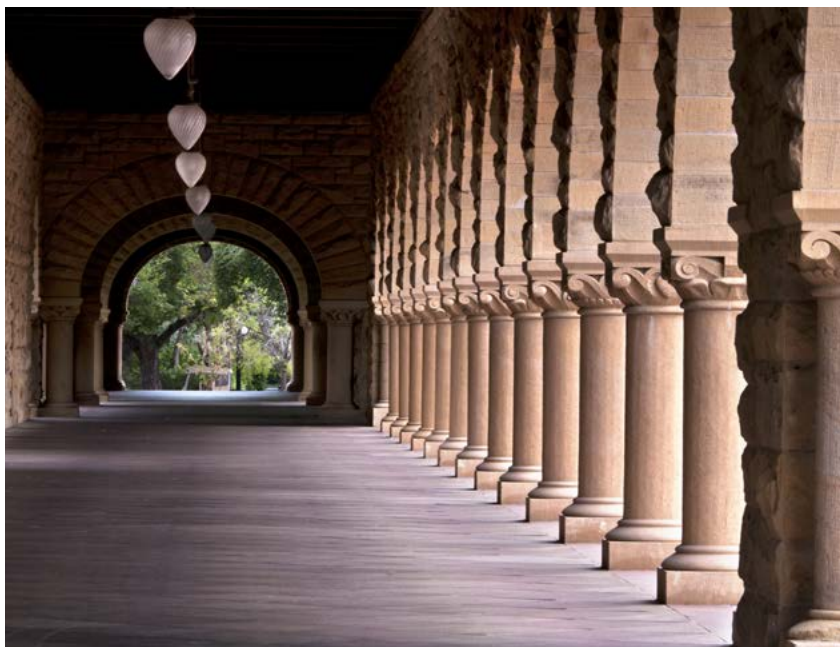
Students who complete this rigorous program will be able to start college at the sophomore level.

Courses include:

- BBM 102: Introduction to Business
- CTA 210: Computer Science
- ENG 121: English Composition I
- ENG 122: English Composition II
- FYE 101: First Year Experience
- HIS 204: World History
- MUS 302: History of Rock and Roll
- SCI 305: Earth & Space Science (Lab)

### REQUIREMENTS

Students must complete a minimum of 6 college-level courses.



### SUMMARY

The Early College Academy is a highly selective program in which students can earn up to 33 college credits, the equivalent of an entire freshman year of college. The program is offered through Wilmington University, which has certified a corps of teachers who helped to create college-level courses adjusted for high school students.

There is an application process that requires six recommendations from the student's teachers, counselor and principal; a writing sample; and interviews. Students should speak to their school counselor for details.

*Offered at AIHS*



# ENGINEERING OF ROBOTICS PATHWAY

SCIENCE, TECHNOLOGY, ENGINEERING &amp; MATHEMATICS

## FUTURE CAREERS

- Civil Engineer
- Manufacturing Engineer
- Mechanical Engineer
- Process Engineer Assistant
- Quality Control Technician

## REQUIREMENTS

### Grade 9

Engineering of Robotics I

### Grade 10

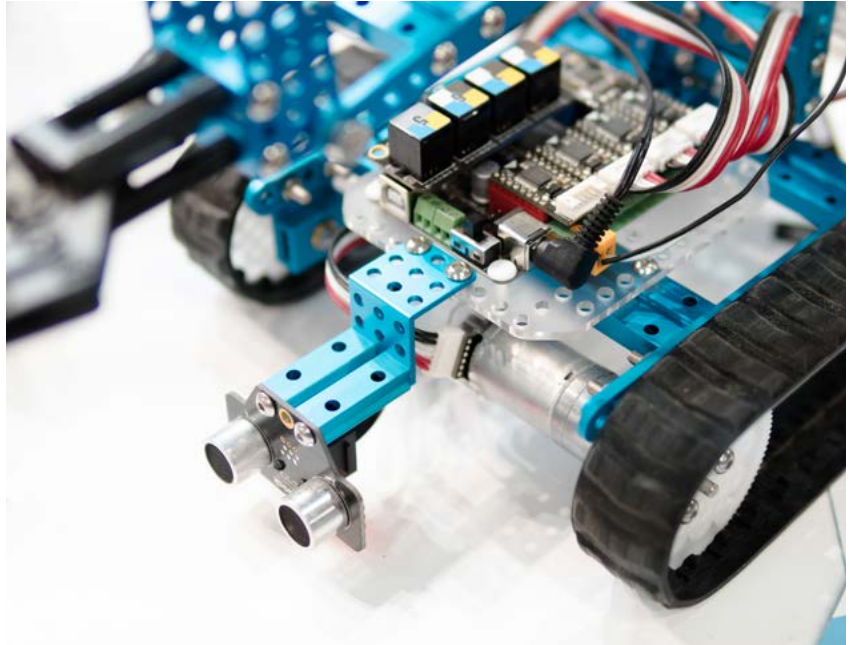
Engineering of Robotics II

### Grade 11

Engineering of Robotics III

## CREDITS

- This pathway is a minimum of 3 credits.



## SUMMARY

Engineering of Robotics is a 3-course Career & Technical Education (CTE) pathway that explores the processes of design and engineering by bringing robots into the high school classroom. Using LEGO Mindstorms NXT Robots, students learn how to program basic robot behaviors using motors and rotation, sound, light, touch and ultrasonic sensors. Other areas of study include concepts of mechanics, applied mathematics and computer programming, with a focus on problem-solving skills, team building and effective communication.

*Offered at JDHS*



# GRAPHIC DESIGN PATHWAY

PERFORMING &amp; DESIGN ARTS

## FUTURE CAREERS

- Advertising/Marketing Director
- Art Director
- Design Studio Owner
- Digital Designer
- Graphic Designer
- Illustrator
- Package Designer
- Print Designer



## REQUIREMENTS

### Grade 9

Graphic Arts & Production I

### Grade 10

Graphic Arts & Production II

### Grade 11

Graphic Arts & Production III

## CREDITS

- This pathway is a minimum of 3 credits.

## SUMMARY

Graphic Design is a 3-course Career & Technical Education (CTE) pathway that exposes students to the world of design through analysis, foundational teachings, and ultimately software application. Courses focus on the foundational skills necessary to create a high-quality design and use mainly hands-on design work to practice those skills. Students use Adobe programs to apply their knowledge of design in the digital world, ultimately working with real-world clients and producing a high-quality portfolio by the end of the pathway.

*Offered at JDHS*

# IB DIPLOMA PROGRAMME PATHWAY

## ADDITIONAL PATHWAYS & PROGRAMS OF STUDY

### ABOUT

The IB Diploma Programme is a rigorous course of study for highly motivated students in grades 11 and 12, with student work graded on global standards set by assessors around the world.

### REQUIREMENTS

#### Grades 9-10

- Honors English 9 & 10
- Honors Math 9 & 10
- Honors Biology & Honors Chemistry
- Honors Social Studies
- Students must complete 3 years of high school Spanish or French before entering the IB Diploma Programme

#### Grades 11-12

- IB English (HL)
- IB Spanish or French (SL)
- IB History of the Americas (HL)
- IB Biology (HL) or IB Chemistry (SL)
- IB Math Studies (SL)
- IB Psychology (HL)
- IB Theory of Knowledge
- IB Visual Art (HL or SL)

#### Additional Requirements

- Creativity, Activity & Service
- The Extended Essay



### SUMMARY

The International Baccalaureate (IB) Diploma Programme is a two-year, pre-college diploma program that helps prepare students aged 16 to 19 for higher education in the United States and overseas through a combination of advanced content knowledge and a focus on the development of critical thinking and an appreciation of global issues. An IB diploma is internationally honored by universities as proof of excellent preparedness for college work, and students have the opportunity to earn college credit by receiving a passing score on the IB subject exam, as determined by the college. Comprised of the Diploma Programme core and six subject groups, this pathway aims to broaden students' educational experience and challenge them to apply their knowledge and skills. Students choose courses from the following subject groups: studies in language and literature; language acquisition; individuals and societies; sciences; mathematics; and the arts. Students may opt to study an additional sciences, individuals and societies, or languages course, instead of a course in the arts.

IB's rigorous courses require that students work at a post-secondary level. IB courses are characterized as Standard Level (SL) or Higher Level (HL). At least three of the six subject area courses will be HL for each student.

*Offered at JDHS*

# INSTRUMENTAL MUSIC PATHWAY

## FUTURE CAREERS

- Band Director
- Composer
- Conductor
- DJ
- Performer
- Music Teacher
- Music Therapist
- Songwriter
- Sound Designer

## REQUIREMENTS

### Grade 9

Symphonic Band or Wind Ensemble  
Fundamentals of Music Theory /  
Sight-Singing & Ear Training

### Grade 10

Symphonic Band or Wind Ensemble

### Grade 11

Symphonic Band or Wind Ensemble

### Grade 12

Symphonic Band or Wind Ensemble



## SUMMARY

Instrumental Music is a 5-course pathway for students who are interested in pursuing instrumental music at the college or professional level. Students will perform various genres of music in a large ensemble setting such as Wind Ensemble or Symphonic Band. With an emphasis on musical terms, instrumental technique and rehearsal technique, this pathway explores the fundamentals of music theory, sight-singing and ear-training. Students are required to perform in two concerts per year, with additional opportunities to perform in the Jazz Ensemble and Marching Band. Students may also take introductory and advanced harmony.

*Offered at CCSA*

## CREDITS

- This pathway is a minimum of 5 credits.

# INSTRUMENTAL MUSIC PROGRAM OF STUDY

## FUTURE CAREERS

- Band Director
- Composer
- Conductor
- DJ
- Performer
- Music Teacher
- Music Therapist
- Songwriter
- Sound Designer

## REQUIREMENTS

3 Instrumental Music Electives

## CREDITS

- This program is a minimum of 3 credits.



## SUMMARY

Instrumental Music is a 3-course program of study for students who are interested in pursuing instrumental music at the college or professional level. Students perform not only in an ensemble setting, but perform solos throughout their years of study. With a broad repertoire covering everything from Broadway to French, German and Italian Classical music, this pathway focuses on musical terms, ear-training and sight-singing exercises, and the International Phonetic Alphabet.

*Offered at AIHS, CSS, JDHS and TMHS*

# JOBS FOR DELAWARE GRADUATES PATHWAY

## ADDITIONAL PATHWAYS & PROGRAMS OF STUDY

### ABOUT

Replicated in 32 states with over 1,000 program affiliates, the Jobs for Delaware Graduates model is dedicated to helping young people stay in school through graduation, pursue post-secondary education, and secure high-quality jobs that lead to career advancement opportunities.



### REQUIREMENTS

#### Grade 9

Jobs for Delaware Graduates 9

#### Grade 10

Jobs for Delaware Graduates 10

#### Grade 11

Jobs for Delaware Graduates 11

#### Grade 12

Jobs for Delaware Graduates 12

### CREDITS

- This pathway is a minimum of 4 credits.

### SUMMARY

Jobs for Delaware Graduates is a 4-course pathway designed to help students in setting and achieving goals in their personal, academic and professional lives. In this program, students receive:

- Assessments to determine skills and career interests
- Course completion assistance to bring students up to grade level and begin post-secondary education, training or placement
- Job skill development and job shadowing experiences
- School dropout prevention through early intervention and service delivery
- Priority status for students eligible under Workforce Investment Act criteria to participate in subsidized summer employment experiences
- Follow-up services for 12 months after graduation

In addition to regular classroom experiences, JDG participants belong to a student organization called the Delaware Career Association (DCA), which teaches leadership skills, civic responsibility, and social and career development. Local and statewide competitions help students to sharpen their skills, with the top finishers recognized at an annual awards luncheon each spring.

*Offered at AIHS, JDHS and TMHS*



# JOURNALISM PATHWAY

COMMUNICATION & MEDIA

## FUTURE CAREERS

- Broadcast Journalist
- Communications Director
- Foreign Correspondent
- Freelance Writer
- Investigative Journalist
- Reporter
- Photojournalist
- Social Media Manager

## REQUIREMENTS

### Grade 9

Journalism I

### Grade 10

Journalism II

### Grade 11

Journalism Elective

### Grade 12

Recommended: Journalism Elective



## SUMMARY

Journalism is a 3-course Career & Technical Education (CTE) pathway that prepares students for careers in communication and media. Students produce the school newspaper and work in class and after school in a workshop setting to explore all aspects of printed media production. Areas of focus include writing, editing, photography, art, layout, business management and advertising.

*Offered at AIHS*

## CREDITS

- This pathway is a minimum of 3 credits.

# K-12 TEACHER ACADEMY PATHWAY

## EDUCATION & HUMAN STUDIES

### FUTURE CAREERS

- Educational Administrator
- Educational Specialist
- Elementary or Secondary Teacher
- Paraprofessional
- School-Age Child Care Coordinator
- Special Education Teacher
- Summer School Aide



### REQUIREMENTS

#### Grade 9

Human Growth & Development

#### Grade 10

Teaching as a Profession

#### Grade 11

Foundations of Curriculum & Instruction

#### Grade 12

Classroom Observations and/or Co-Op\*

\*Seniors approved for Co-Op may work as aides in local schools.

### SUMMARY

The Delaware K-12 Teacher Academy is a 3-course Career & Technical Education (CTE) pathway that engages students in developing a realistic understanding of teaching while exploring the importance and impact of teachers. Students acquire the knowledge and skills needed to sustain their interest in the profession and cultivate the skills needed to be successful educators, thus creating a pipeline of high-quality students transitioning to the teaching profession. Students will understand the rigors of a career in education and participate in classroom and field experiences relevant to pursuing a degree in education. This pathway prepares students for a variety of careers in education such as elementary teacher, secondary teacher, paraprofessional and special education teacher.

*Offered at AIHS and TMHS*

### CREDITS

- This pathway is a minimum of 3 credits.
- Students in this pathway may earn industry-recognized certifications and licenses such as CPR/First Aid and ParaPro.

# MANUFACTURING ENGINEERING TECHNOLOGY PATHWAY

ARCHITECTURE, CONSTRUCTION & MANUFACTURING

## FUTURE CAREERS

- Carpenter
- Commercial Electrical Technician
- Electrician
- First-Line Supervisor of Mechanics
- Industrial Materials Scientist
- Mechanical Engineer
- Military Technologist



## REQUIREMENTS

### Grade 9

Foundations of Technology

### Grade 10

Advanced Design Applications

### Grade 11

Processes of Design & Engineering III

### Grade 12

Physical Technology Research/  
Development

Seniors approved for Co-Op may apply for an internship offered by PEPCO focusing on Information Technology and Engineering.

## SUMMARY

Manufacturing Engineering Technology is a 4-course Career & Technical Education (CTE) pathway that engages students in open-ended problem solving where they learn and apply the engineering design process, use industry-standard technology and software, and apply math, science and engineering standards to hands-on projects.

Students participate in many open competitions aligned with the curriculum, the largest of which is sponsored by the Technology Student Association (TSA). Since 2014, TMHS students have taken top honors in Co2 Dragster, Essays on Technology, Flight, Rocketry and Structural Engineering.

*Offered at TMHS*

## CREDITS

- This pathway is a minimum of 4 credits.
- Students in this pathway may earn industry-recognized certifications and licenses such as NACTE, NCCER and AutoDesk Inventor.



# MARKETING PATHWAY

## BUSINESS MANAGEMENT & ADMINISTRATION

### FUTURE CAREERS

- Business Intelligence Analyst
- Creative Director
- Graphic Designer
- Marketing Manager
- Marketing Researcher
- Product Planning Specialist
- Public Relations Specialist
- Sales Representative

### REQUIREMENTS

#### Grade 9

Business, Finance & Marketing Essentials I

#### Grade 10

Marketing Communications II (TMHS)  
Marketing Management II (AIHS)

#### Grade 11

Marketing Communications III (TMHS)  
Marketing Management III (AIHS)

#### Grade 12

Marketing Management IV (TMHS)

Seniors approved for Co-Op may work in a local print publications business. (TMHS)

### CREDITS

- This pathway is a minimum of 3 credits (AIHS) or 4 credits (TMHS).
- Students in this pathway may earn industry-recognized certifications and licenses such as Adobe Certification and Hootsuite Social Media Certification.



### SUMMARY

Marketing is a 3- to 4-course Career & Technical Education (CTE) pathway in which students focus on marketing communications or marketing management.

At TMHS, students learn the basics of marketing communications by managing and operating the school's graphic design business. Students use the Adobe Creative Suite and concentrate on Adobe certification, social media certification and marketing functions.

At AIHS, students analyze variables affecting the marketing process, as they explore the areas of business law, customer relations, human resources management and financial analysis. Students interpret statistical information in the areas of selling, pricing, promotion and production. Students also study pricing and management techniques for small businesses and the impact of marketing on customer and employee relations.

*Offered at AIHS and TMHS*

# NAF ACADEMY OF BUSINESS INFORMATION MANAGEMENT



## FUTURE CAREERS

- General Manager
- Information Systems Manager
- IT Specialist
- Management Analyst
- Operations Manager

## REQUIREMENTS

### Grade 9

Business Information Technology

### Grade 10

Global Business Economics

### Grade 11

Entrepreneurship

## CREDITS

- This pathway is a minimum of 3 credits.
- Students in this pathway may earn industry-recognized certifications and licenses such as NAFTrack Certification.

## SUMMARY

The NAF Academy of Business Information Management is a 3-course Career & Technical Education (CTE) pathway that introduces students to the skills needed to plan, organize, direct and evaluate business functions essential to business operations through courses in entrepreneurship, global and domestic economics, information technology, customer service and ethics. Students gain critical career knowledge through a series of work-based learning activities that are conducted in school and outside the classroom. These activities may include job shadowing, mock interviews and resume writing workshops. Completion of the program is validated with NAFTrack Certification, a student certification assessment system.

*Offered at AIHS*



# NAF ACADEMY OF FINANCE PATHWAY

## BUSINESS MANAGEMENT & ADMINISTRATION

### FUTURE CAREERS

- Accountant
- Budget Analyst
- Certified Public Accountant
- Financial Analyst
- Loan Officer
- Payroll Technician
- Personal Finance Advisor
- Tax Preparer



### REQUIREMENTS

#### Grade 9

Fundamentals of Finance

#### Grade 10

Principles of Accounting

#### Grade 11

Financial Services

### SUMMARY

The NAF Academy of Finance is a 3-course Career & Technical Education (CTE) pathway that engages students with the world of financial services by focusing on banking and credit, financial planning, accounting and insurance. Students gain career knowledge through a series of work-based learning activities that are conducted in school and outside of the classroom, and a summer internship. Completion of the program is validated with NAFTrack Certification, a student certification assessment system.

*Offered at AIHS*

### CREDITS

- This pathway is a minimum of 3 credits.
- Students in this pathway may earn industry-recognized certifications and licenses such as NAFTrack Certification.



# NURSING PATHWAY

HEALTH SCIENCES

## FUTURE CAREERS

- Dental Hygienist
- Diagnostic Medical Sonographer
- Nurse Assistant
- Radiologic Technologist
- Respiratory Therapist
- Registered Nurse
- Surgical Technologist

## REQUIREMENTS

### Grade 10

Nursing Technology Level I:  
Fundamentals of Health Sciences (FHS)

### Grade 11

Nursing Technology Level II:  
Essentials of Anatomy & Physiology  
(EAP)

### Grade 12

Nursing Technology Level III:  
Certified Nurse Assisting (CNA)  
(2 credits)

## CREDITS

- This pathway is a minimum of 4 credits.
- Students in this pathway may earn industry-recognized certifications and licenses such as CNA Certification.



## SUMMARY

Nursing is a 3-course Career & Technical Education (CTE) pathway that engages students in open-ended problem solving where they study topics such as medical terminology and human anatomy and physiology. Through exploration of the National Health Science Standards, students will acquire important skills necessary for healthcare professionals such as medical mathematics, communication, safety practices, legal responsibilities and teamwork. In addition, students will develop technical skills such as providing personal care of the resident while taking care of their environmental and psychosocial needs.

*Offered at CSS*

# PHYSICAL THERAPY & SPORTS MEDICINE PATHWAY

## FUTURE CAREERS

- Athletic Trainer
- Exercise Physiologist
- Fitness Instructor
- Occupational Therapist
- Personal Trainer
- Physical Therapist
- Physical Therapy Assistant

## REQUIREMENTS

### Grade 10

Physical Therapy & Athletic Healthcare I  
(2 credits)

### Grade 11

Physical Therapy & Athletic Healthcare II  
(2 credits)

### Grade 12

Physical Therapy & Athletic Healthcare III  
(2 credits)

## CREDITS

- This pathway is a minimum of 6 credits.
- Students in this pathway may earn industry-recognized certifications and licenses such as First Aid Certification and CPR/AED Certification.



## SUMMARY

Physical Therapy & Sports Medicine is a 3-course Career & Technical Education (CTE) pathway designed to build a basic foundation for the physical therapy and athletic healthcare fields. Topics include medical terminology, human body systems and disease, and infection control. This pathway provides an overview of the field of sports medicine and the sports medicine team, with a look at the mechanism of injuries; assessment/evaluation, prevention and rehabilitation; protective taping, bracing, and wrapping; concussion identification and management, organization and administration of an athletic training facility. Students will participate in observations at an inpatient or outpatient physical therapy clinic as they interact with physical therapists, patients and other professional staff.

*Offered at CSS*

# PIANO PATHWAY

PERFORMING &amp; DESIGN ARTS

## FUTURE CAREERS

- Band Director
- Collaborative Pianist
- Composer
- Conductor
- Music Teacher
- Operatic Accompanist
- Professional Chamber Musician
- Solo Pianist
- University Professor



## REQUIREMENTS

### Grade 9

Piano I

Fundamentals of Music Theory /  
Sight-Singing & Ear Training

### Grade 10

Piano II

### Grade 11

Piano III

### Grade 12

Piano IV

## SUMMARY

Piano is a 4-course pathway that prepares students to become professional pianists. With an introduction to the fundamentals of music through piano, students learn repertoire, scales, chords, sight-reading, harmonization, transposition and basic theory while developing the technique and knowledge needed to play in the major and minor keys. Students also learn accompaniment techniques, sight-reading skills and classical repertoire, with an emphasis on scales and arpeggios in two octaves. Students have opportunities to perform both as soloists and accompanists.

*Offered at CCSA*

## CREDITS

- This pathway is a minimum of 4 credits.

# PLANT & HORTICULTURAL SCIENCES PATHWAY

## AGRICULTURE & NATURAL RESOURCES

### FUTURE CAREERS

- Botanical Garden Curator
- Floral Sales Manager
- Floral Shop Buyer
- Food Crops Field Technician
- Landscape Architect
- Nursery Worker
- Researcher



### REQUIREMENTS

#### Grade 9

Plant/Horticultural Science I

#### Grade 10

Greenhouse/Horticultural Science II

#### Grade 11

Greenhouse/Horticultural Science III

#### Grade 12

Seniors approved for Co-Op may work in a local floral shop, landscaping business, or nursery.

### CREDITS

- This pathway is a minimum of 3 credits.
- Students in this pathway may earn industry-recognized certifications and licenses such as Nutrient Management Certification, American Society for Horticulture Science, and Pesticide Management Certification.

### SUMMARY

Plant & Horticultural Sciences is a 3-course Career & Technical Education (CTE) pathway that provides students with the opportunity to prepare for a career or postsecondary education in the plant and horticultural sciences industry. Areas of study include plant anatomy and physiology, taxonomy and hydroponics. Students have the unique opportunity to work in the school greenhouse to learn the various aspects of horticulture, greenhouse maintenance and greenhouse management. Students are completely responsible for the entire process of plant management culminating in the annual plant sale every spring.

As students' progress through this pathway, they are given more responsibilities in running the greenhouse and plant sales. Upon graduation, students have the skills to obtain an entry-level job in areas such as landscaping, floral shops, plant nurseries, botanical gardens and crop research facilities.

*Offered at TMHS*

# PROCESSES OF DESIGN & ENGINEERING PATHWAY

## ARCHITECTURE, CONSTRUCTION & MANUFACTURING

### FUTURE CAREERS

- Civil Engineer
- Manufacturing Engineer
- Mechanical Engineer
- Process Engineer Assistant
- Quality Control Technician



### REQUIREMENTS

#### Grade 9

Processes of Design & Engineering I

#### Grade 10

Processes of Design & Engineering II

#### Grade 11

Processes of Design & Engineering III

### CREDITS

- This pathway is a minimum of 3 credits.

### SUMMARY

Processes of Design & Engineering is a 3-course Career & Technical Education (CTE) pathway that teaches students to apply science, technology, engineering and mathematics to solve complex, open-ended problems in a real-world context. Students focus on the process of defining and solving a problem, not on getting the “right” answer. They learn how to apply STEM knowledge, skills and habits of mind to make the world a better place through innovation.

*Offered at JDHS*



# STRINGS PATHWAY

PERFORMING &amp; DESIGN ARTS

## FUTURE CAREERS

- Clinician
- Composer
- Music Director
- Music Teacher
- Orchestra Leader
- Orchestra Musician
- Professional Musician
- Session Player
- Studio Owner
- Touring Musician



## REQUIREMENTS

### Grade 9

Strings I  
Fundamentals of Music Theory /  
Sight-Singing & Ear Training

### Grade 10

Strings II

### Grade 11

Strings III

### Grade 12

Strings IV

## SUMMARY

Strings is a 4-course pathway that introduces students to musicianship, music theory, composition, improvisation, music history, ear training and technique on strings instruments. Throughout the course of this pathway, students refine their strings technique with a repertoire that features orchestra music, chamber music and individual solos, with performances in large and small groups with a conductor and by themselves.

*Offered at CCSA*

## CREDITS

- This pathway is a minimum of 4 credits.

# TECHNICAL THEATER PATHWAY

PERFORMING & DESIGN ARTS

## FUTURE CAREERS

- Costume Designer
- Lighting Designer
- Production Manager
- Rigger
- Scenic Artist
- Set Designer
- Sound Engineer
- Stage Manager
- Stage Technician
- Technical Director
- Theater Consultant



## REQUIREMENTS

### Grade 9

Introduction to Technical Theater

### Grade 10

Technical Theater II

### Grade 11

Technical Theater III

### Grade 12

Technical Theater IV

## SUMMARY

Technical Theater is a 4-course pathway that takes students inside the world of theater production. This pathway builds design, fabrication and facilitation skills and offers students a chance to apply them by supporting other performing arts programs in the school. Students practice active problem-solving, managing different personality types and developing an extensive skill set in technical theater.

*Offered at CCSA*

## CREDITS

- This pathway is a minimum of 4 credits.

# THEATER ARTS PATHWAY

## PERFORMING & DESIGN ARTS

### FUTURE CAREERS

- Actor
- Community Arts Worker
- Dancer
- Drama Therapist
- Music Therapist
- Playwright
- Stage Manager
- Theater Director

### REQUIREMENTS

#### Grade 9

Introduction to Acting

#### Grade 10

Theater Elective

#### Grade 11

Theater Elective

#### Grade 12

Arts Elective

### CREDITS

- This pathway is a minimum of 4 credits.



### SUMMARY

Theater Arts is a 4-course pathway that develops students into artists who are prepared to produce original work. This pathway explores acting, directing and playwriting while guiding students to develop and lead their own productions beyond the classroom. Students explore in-depth scene and character analysis while learning to connect to a character's circumstances. Students will also connect to their physical instrument, freeing themselves of body tensions and discovering their natural speaking voice. Further, this pathway examines theater history, philosophy and theory by diving into theatrical texts ranging from classical to contemporary.

*Offered at CCSA*

# THEATER PROGRAM OF STUDY

PERFORMING &amp; DESIGN ARTS

## FUTURE CAREERS

- Actor
- Community Arts Worker
- Dancer
- Drama Therapist
- Music Therapist
- Playwright
- Stage Manager
- Theater Director



## REQUIREMENTS

### Grade 9

Introduction to Drama (AIHS)  
Drama I (JDHS)

### Grade 10

Drama II

### Grade 11

Drama III

### Grade 12

Advanced Acting (AIHS)

## SUMMARY

Theater is a 3- to 4-course program of study that provides the opportunity for students to grow from an understanding of theatrical performance and production to the creation of theatrical works through analysis, synthesis and observation. Students participate in enriching acting exercises to learn how to use their body and voice to convey the playwright's intent, and study and perform scenes and monologues from classic and contemporary plays.

*Offered at AIHS and JDHS*

## CREDITS

- This program is a minimum of 3 credits.

# VISUAL ARTS PATHWAY

## PERFORMING & DESIGN ARTS

### FUTURE CAREERS

- Art Historian
- Art Teacher
- Exhibition Designer
- Fine Artist
- Illustrator
- Lecturer
- Museum/Gallery Curator
- Printmaker



### REQUIREMENTS

#### Grade 9

Visual Arts Foundation I  
Art History

#### Grade 10

Visual Arts Foundation II

#### Grade 11

Visual Arts Elective

#### Grade 12

AP Studio Art

### SUMMARY

Visual Arts at Cab Calloway School of the Arts is a 5-course pathway for students who are interested in pursuing the visual arts at the college or professional level. Students will learn techniques, skills and mediums with real-world applications. Along with studying fine arts, students examine the design, cultural and historical aspects of creating art.

*Offered at CCSA*

### CREDITS

- This pathway is a minimum of 5 credits.

# VISUAL ARTS PROGRAM OF STUDY

## PERFORMING & DESIGN ARTS

### FUTURE CAREERS

- Art Historian
- Art Teacher
- Exhibition Designer
- Fine Artist
- Illustrator
- Lecturer
- Museum/Gallery Curator
- Printmaker



### REQUIREMENTS

#### Grade 9

Visual Arts Foundation I

#### Grade 10

Visual Arts Foundation II

#### Grade 11 or 12

Visual Arts Elective

### SUMMARY

Visual Arts is a 3-course program of study that builds the skills needed to create art for aesthetic and commercial purposes. This program not only exposes students to the development of beautiful artwork, but also fosters a lifelong appreciation for visual artistry.

*Offered at AIHS, JDHS and TMHS*

### CREDITS

- This program is a minimum of 3 credits.

# VOCAL ARTS PROGRAM OF STUDY

## PERFORMING & DESIGN ARTS

### FUTURE CAREERS

- Choral Director
- Music Teacher
- Music Therapist
- Performer
- Recording Artist
- Singer-Songwriter
- Vocal Coach
- Vocalist
- Voiceover Artist

### REQUIREMENTS

#### Grade 9

Vocal Elective

#### Grade 10

Vocal Elective

#### Grade 11

Vocal Elective

#### Grade 12

Recommended: Vocal Elective

### CREDITS

- This program is a minimum of 3 credits.



### SUMMARY

The Vocal Arts program of study is a 3-course program for students who are interested in pursuing vocal arts at the college or professional level. Throughout their course of study, students will learn advanced vocal skills by participating in award-winning performance ensembles such as Chamber Choir, Concert Choir, Mixed Chorus, Advanced Ensemble and Women's Ensemble. Alongside their ensemble classes, students will be exposed to other music courses which will enhance their level of musicianship. Students will also have opportunities to apply the skills they have learned by participating in festivals, competitions, and by working with clinicians, professors and professionals in the field of music.

*Offered at AIHS, CSS, JDHS and TMHS*

# VOCAL MUSIC PATHWAY

PERFORMING &amp; DESIGN ARTS

## FUTURE CAREERS

- Choral Director
- Music Teacher
- Music Therapist
- Performer
- Recording Artist
- Singer-Songwriter
- Vocal Coach
- Vocalist
- Voiceover Artist



## REQUIREMENTS

### Grade 9

Vocal Music I  
Fundamentals of Music Theory /  
Sight-Singing & Ear Training

### Grade 10

Vocal Music II

### Grade 11

Vocal Music III

### Grade 12

Vocal Music IV

## SUMMARY

The Vocal Music pathway is a 5-course pathway for students who are interested in pursuing vocal music at the college or professional level. Students not only sing in a choral setting, but perform solos throughout their years of study. With a broad repertoire covering everything from Broadway to French, German and Italian Classical music, this pathway focuses on musical terms, ear-training and sight-singing exercises, and the International Phonetic Alphabet.

*Offered at CCSA*

## CREDITS

- This pathway is a minimum of 4 credits.



# WORLD LANGUAGE & INTERNATIONAL STUDIES PROGRAM OF STUDY

## ADDITIONAL PATHWAYS & PROGRAMS OF STUDY

### FUTURE CAREERS

- Customs Compliance Specialist
- English as a Foreign Language Instructor
- Foreign News Correspondent
- Foreign Service
- International Economist
- International Marketing Manager
- Interpreter/Translator
- Management Analyst

### REQUIREMENTS

#### Grade 9 or 10

World Language III

#### Grade 10 or 11

World Language IV, Pre-AP or IB

#### Grade 12

World Language AP or IB

### CREDITS

- This program is a minimum of 3 credits.
- Students in this program may be eligible to apply for a Certificate of Multiliteracy.



### SUMMARY

World Language & International Studies is a 3-course program of study that develops cultural competence and proficiency in one of four languages. Students will gain greater appreciation of their first language through the study of linguistics. Students will learn to apply the target language skills of reading, writing, listening and speaking through coursework and experiences.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*



# COURSE DESCRIPTIONS

# AGRICULTURE & NATURAL RESOURCES

*This section includes courses in the Animal Science Pathway, Biotechnology Pathway, Natural Resources & Environmental Sciences Pathway and Plant & Horticultural Sciences Pathway.*

## ANIMAL SCIENCE

### FOUNDATIONS OF ANIMAL SCIENCE

**0938 / CIP: 1.03602011**  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This course introduces students to the care of animals, with a focus on building the entry-level skills and knowledge needed to work in the animal care and production industry. Topics include animal origin, domestication and uses, careers, animal safety and sanitation, ways animals help humans, livestock animal production, basic nutrition and health, biosecurity principles and environmental conditions on animals and animal rights vs. welfare and the National FFA Organization. Students work hands on with animals in the classroom and barn facility.

*Offered at TMHS*

**ANIMAL SCIENCE I**  
**0938 / CIP: 01.03301011**  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This course introduces students to the care of animals, with a focus on building the entry-level skills and knowledge needed to work in the animal industry. Topics include humane education, anatomy and physiology, animal nutrition, the cost of animal care, resume writing and job interviewing. Students work with animals inside and outside of the classroom.

*Offered at CSS*

**ANIMAL SCIENCE II /  
VET SCIENCE I**  
**0948 / CIP: 01.03301022**  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course covers animal health and disease in animals, with a focus on preparing students for assistant manager positions in the animal industry. Students have the opportunity to gain hands-on experience in the field of animal care. **PREREQUISITE:** Animal Science I.

*Offered at CSS and TMHS*

**ANIMAL SCIENCE III /  
VET SCIENCE II**  
**0939 / CIP: 01.03301033**  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course explores the study of pre-veterinary medicine, with an emphasis on veterinary technician skills. Students refine their resumes, develop a portfolio and learn the art of job interviewing. **PREREQUISITE:** Animal Science II / Vet Science I.

*Offered at CSS and TMHS*

**ANIMAL SCIENCE IV /  
VET SCIENCE III**  
**0949 / CIP: 01.03301043**  
FULL YEAR  
1 CREDIT  
GRADE 12

In this course students work with animals at Thomas McKean High School and create a yearlong research project focused on animal science or veterinary medicine. Students explore careers in the animal industry and are expected to compete in a Career Development Event through the National FFA Organization at the state level, in a subject related to animal science. **PREREQUISITE:** Animal Science III / Vet Science II.

*Offered at CSS and TMHS*

# AGRICULTURE & NATURAL RESOURCES

## BIOTECHNOLOGY

**FUNDAMENTALS OF  
BIOTECHNOLOGY I**  
1228 / CIP: 01.02305011  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This course introduces students to the field of biotechnology and related laboratory techniques. With topics including basic heredity, genetics, DNA, human genome and plant genome, students explore the ethical, economic, environmental, political and historical impact of biotechnology on our society.

*Offered at CSS*

**BIOTECHNOLOGY SYSTEMS  
DESIGN & PROTOTYPING II**  
1229 / CIP: 01.02305022  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course explores principles of heredity and variation in living organisms, with a look at the nature of the genetic material and its transmission, the influence of heredity and environment on the development of individual characters, and molecular methods of analysis. Topics include evolution of organisms and artificial selection of plant and animal varieties, DNA tools for genetic analysis, cytogenetics, gene mapping, the molecular basis of genetic diseases, animal models, genetics of development and cancer, and treatment of genetic diseases. **PREREQUISITE:** Fundamentals of Biotechnology I.

*Offered at CSS*

**BIOTECHNOLOGY  
ENVIRONMENTAL SYSTEMS  
DESIGN III**  
1230 / CIP: 01.02305033  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course offers students the opportunity to practice and learn about common authentic applications in biotechnology. Through discussions and debates, students practice effective decision making in research ethics. Students also create their own research project, taking complete ownership of the research process from design, set-up, data collection and analysis, to presentation in a formal lab report. **PREREQUISITE:** Biotechnology Systems Design & Prototyping II.

*Offered at CSS*

**BIOTECHNOLOGY IV**  
1231  
FULL YEAR  
1 CREDIT  
GRADE 12

In this course students continue research and study in the ever-changing field of biotechnology, with opportunities to conduct independent research. **PREREQUISITE:** Biotechnology Environmental Systems Design III.

*Offered at CSS*

## NATURAL RESOURCES & ENVIRONMENTAL SCIENCES

**AP ENVIRONMENTAL  
SCIENCE**  
0441 / 0454  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course is designed to prepare students for the AP Environmental Science Exam. Students engage with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world. Embracing topics from geology, biology, environmental studies, environmental science, chemistry and geography, this interdisciplinary course challenges students to identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems and examine alternative solutions for resolving or preventing them. **PREREQUISITE:** Biology.

*Offered at AIHS, CCSA, CSS and TMHS*

# AGRICULTURE & NATURAL RESOURCES

## PLANT & HORTICULTURAL SCIENCES

### FUNDAMENTALS OF PLANT SCIENCE

**0951 / CIP: 01.02607011**  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This course explores the plant industries and food system of the United States in order to foster an understanding of the steps involved in growing crops for food and growing plants for ornamental and aesthetic purposes. Students examine the major characteristics of plant life, plant structures and functions, nutrient needs of plants, fundamentals of soil science, water management, cultural practices, pest management, and explore career options in the horticulture industry through classroom and laboratory instruction. Students are introduced to the National FFA Organization.

*Offered at TMHS*

**GREENHOUSE /  
HORTICULTURAL SCIENCE II**  
**0952 / CIP: 01.02307022**  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course examines the fundamentals of plant science, soil science, water management, pest management and crop production characteristics, with hands-on laboratory and experiential learning through land labs, greenhouses, landscape beds, floral production and hydroponics.  
**PREREQUISITE:** Fundamentals of Plant Science.

*Offered at TMHS*

**GREENHOUSE /  
HORTICULTURAL SCIENCE III**  
**0953 / CIP: 01.02307033**  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course students apply principles of horticulture production and facility maintenance and design. Topics include soil conservation, land management practices, integrated pest management the use and application of pesticides, global economic systems, sustainability of plant life, and the multifaceted role plants play in sustaining and improving the quality of life. This course also covers principles of business management (through the annual Thomas McKean High School FFA plant sale) and record keeping.  
**PREREQUISITE:** Greenhouse / Horticultural Science II.

*Offered at TMHS*

**GREENHOUSE /  
HORTICULTURAL SCIENCE IV**  
**0954 / CIP: 01.102301043**  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course students pursue an independent research project while assuming a leadership role in managing the annual Thomas McKean High School FFA plant sale and running the school's greenhouse. **PREREQUISITE:** Greenhouse / Horticultural Science III.

*Offered at TMHS*

# AGRICULTURE & NATURAL RESOURCES

## PLANT SCIENCE

0498  
1 SEMESTER  
0.5 CREDIT  
GRADES 10-12

This course is designed to give students skills in the areas of structure of plants, growth processes, propagation, physiology, reproduction, soil, pests, nursery management, landscaping, and plant identification. The students in the class will operate and run the school greenhouse incorporating all of their projects from the year.

*Offered at CSS*

## AGRISCIENCE CO-OP

0960 / [PENDING CIP NUMBER]  
FULL YEAR  
1 CREDIT  
GRADE 12

This course builds upon the format and focus of pathways in the Agriculture & Natural Resources cluster. Students are expected to obtain paid employment in an agriscience field, with direction from their pathway teacher. Students must provide their own transportation. Students are scheduled either for a morning or afternoon session, either A or B day, or both. **PREREQUISITE:** 3 years of a pathway in the Agriculture & Natural Resources cluster.

*Offered at TMHS*

# AP CAPSTONE

*AP Capstone™ is an innovative diploma program from the College Board that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. AP Capstone is built on the foundation of two AP courses — AP Seminar and AP Research — and is designed to complement and enhance the in-depth, discipline-specific study experienced in other AP courses. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams will receive the AP Seminar and Research Certificate. AP Seminar may also be taken as a stand-alone option.*

## AP SEMINAR 0128 FULL YEAR 1 CREDIT GRADE 10

This course is the first of two courses in the AP Capstone program. In this foundational course, students engage in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. **PREREQUISITE:** English 9. Note: This course replaces English 10 Honors.

*Offered at CCSA and CSS*

## AP RESEARCH 0710 FULL YEAR 1 CREDIT GRADES 11-12

This course is the second of two courses in the AP Capstone program. In this course students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing and synthesizing information as they address a research question. Students explore their skill development, document their processes and curate the artifacts of the development of their scholarly work in a portfolio. This course culminates in an academic paper of 4,000-5,000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. **PREREQUISITE:** AP Seminar.

*Offered at CCSA and CSS*

## AP WORKSHOP 1218 FULL YEAR 0.5 CREDIT GRADES 11-12

In this course students develop and apply strong study habits, reading comprehension strategies and other practical skills that will help them succeed in advanced coursework in high school and college. AP Workshop does not count as one of the four additional AP courses for the AP Capstone Diploma. **CO-REQUISITE:** Enrollment in at least one AP or dual enrollment course.

*Offered at CCSA and CSS*



# ARCHITECTURE, CONSTRUCTION & MANUFACTURING

*This section includes courses in the Drafting & Design Pathway, Manufacturing Engineering Technology Pathway and Processes of Design & Engineering Pathway.*

## DRAFTING & DESIGN

**DRAFTING & DESIGN: CAD I**  
1107 / CIP: 02.01302011  
FULL YEAR  
1 CREDIT  
GRADES 9-10

This course introduces the fundamental skills needed for careers in design, architecture, construction management and engineering. Students practice manual and computer-aided drafting, basic model building, and engineering-related problem-solving, with an emphasis on accuracy and precision. Measuring, basic operations with decimals and fractions, and geometric principles are also covered in this course. Students participate in the Technology Student Association.

*Offered at JDHS*

**FOUNDATIONS OF ARCHITECTURAL TECHNOLOGY**  
1107 / CIP: 02.01605011  
FULL YEAR  
1 CREDIT  
GRADES 9-10

This course introduces the fundamental skills needed for careers in design, architecture, construction management and engineering. Students practice manual and computer-aided drafting, basic model building, and engineering-related problem-solving, with an emphasis on accuracy and precision. Measuring, basic operations with decimals and fractions, and geometric principles are also covered in this course. Students participate in the Technology Student Association.

*Offered at AIHS*

**ARCHITECTURAL: CAD II**  
1108 / CIP: 02.01305022  
FULL YEAR  
1 CREDIT  
GRADES 10-11

In this course students explore careers in architecture, landscape architecture, civil engineering, mechanical engineering and construction management. Working in a design studio, students learn advanced manual drafting practices, Autodesk computer-aided drawing applications and architectural model building, with participation in drafting and design competitions. **PREREQUISITE:** Drafting & Design: CAD I.

*Offered at AIHS and JDHS*

**ARCHITECTURAL: CAD III**  
1109 / CIP: 02.01305033  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course students examine broader architecture and civil engineering problems while refining their drafting and model building skills. Students learn to take ownership of their design solutions, collaborate with classmates and participate in regional design competitions. **PREREQUISITE:** Architectural: CAD II.

*Offered at AIHS and JDHS*

# ARCHITECTURE, CONSTRUCTION & MANUFACTURING

## MANUFACTURING ENGINEERING TECHNOLOGY

### FOUNDATIONS OF TECHNOLOGY

1048 / CIP: 13.02603011  
FULL YEAR  
1 CREDIT  
GRADES 9-10

This course prepares students to innovate, improvise and invent solutions to engineering problems. With a look at how ideas, knowledge and skills produce technological innovations, students develop a foundation in engineering design and learn to use documentation as a formal process to transform ideas into products or systems.

*Offered at TMHS*

### ADVANCED DESIGN APPLICATIONS

1049 / CIP: 13.02603022  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course prepares students to apply advanced applications in design with a focus on systems thinking and the impact of technological developments. Students also examine the use of industry-leading technologies in the creation of models, mock-ups and prototypes to create engineered solutions. **PREREQUISITE:** Foundations of Technology.

*Offered at TMHS*

### ENGINEERING DESIGN

1050 / CIP: 13.02603033  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course prepares students to transform concepts into products with fully developed engineering design documentation that meets consumer requirements. Students practice the engineering design process by creating, synthesizing, iterating and presenting solutions. **PREREQUISITE:** Advanced Design Applications.

*Offered at TMHS*

### PHYSICAL TECHNOLOGY RESEARCH & DEVELOPMENT

0920 / CIP: 15.01301043  
FULL YEAR  
1 CREDIT  
GRADE 12

In this advanced design studio course, students gain a broader exposure to problem-solving applications while refining their science, technology and math skills. Students are expected to be highly motivated with the ability to work independently on assignments that can span from 4 to 6 weeks. Teacher interaction is more indirect with emphasis instead placed on the student's unique design solutions and collaboration with classmates. Students are expected to take a direct leadership role and participate in all TSA-sponsored events.

*Offered at TMHS*

### DESIGN & PROCESS

ENGINEERING CO-OP  
0950 / [PENDING CIP NUMBER]  
FULL YEAR  
1 CREDIT  
GRADE 12

This course builds upon the format and focus of the Engineering and Technology Pathways. Students are expected to obtain paid employment in the Construction Trades, Design Engineering or Technology fields, with direction from their pathway teacher. Students must provide their own transportation. **PREREQUISITE:** Engineering Design

*Offered at TMHS*

# ARCHITECTURE, CONSTRUCTION & MANUFACTURING

## PROCESSES OF DESIGN & ENGINEERING

**PROCESSES OF DESIGN & ENGINEERING I**  
 0911 / CIP: 15.01301011  
 FULL YEAR  
 1 CREDIT  
 GRADES 9-10

This course explores processes of design and engineering, and concepts of mechanics. Students focus on problem solving skills, team building, and learning effective communication within their group. Classroom activities are supplemented by design and construction projects in the school community. Students have the opportunity to participate in Technology Student Association competitions.

*Offered at JDHS*

**PROCESSES OF DESIGN & ENGINEERING II**  
 0912 / CIP: 15.01301022  
 FULL YEAR  
 1 CREDIT  
 GRADES 10-12

This course focuses on civil engineering and resultant construction systems. Topics include historical foundations, scale modeling and prototyping, building prints, and electrical theory and its application. Students have the opportunity to participate in Technology Student Association events.  
**PREREQUISITE:** Processes of Design & Engineering I.

*Offered at JDHS*

**PROCESSES OF DESIGN & ENGINEERING III**  
 0913 / CIP: 15.01301033  
 FULL YEAR  
 1 CREDIT  
 GRADES 11-12

This course challenges students to analyze and solve dilemmas in mechanical, civil and systems engineering. Topics include the study of simple mechanisms and machines, advanced structural design, transportation systems and aeronautics. Students also explore the history of technology and engineering, particularly as it relates to society. Students are expected to participate in open design competitions and Technology Student Association events.  
**PREREQUISITE:** Processes of Design & Engineering II.

*Offered at JDHS*

# AVID

## **AVID GRADE 9**

**0199**  
**FULL YEAR**  
**1 CREDIT**  
**GRADE 9**

This course introduces students to the AVID college readiness system, a set of strategies to build the learning, study and academic behavioral skills that are essential for success in rigorous coursework such as honors and AP courses.

*Offered at JDHS and TMHS*

## **AVID GRADE 10**

**1090**  
**FULL YEAR**  
**1 CREDIT**  
**GRADE 10**

This course helps students to build a foundation for success in high school AP courses and college coursework. With a focus on developing skills in writing, inquiry, collaboration, and reading across the content areas, students also explore college and career research.

*Offered at AIHS, JDHS and TMHS*

## **AVID GRADE 11**

**1091**  
**FULL YEAR**  
**1 CREDIT**  
**GRADE 11**

In this course students refine their writing, inquiry, collaboration, and reading skills, while also examining the college entrance essay and admission requirements for four-year universities. Students have an opportunity to build leadership experience by designing and completing service projects in this course.

*Offered at AIHS, JDHS and TMHS*

## **AVID GRADE 12**

**1092**  
**FULL YEAR**  
**1 CREDIT**  
**GRADE 12**

This course takes students inside the college application and financial aid processes and continues to build leadership skills through service projects.

*Offered at AIHS, JDHS and TMHS*

# BUSINESS MANAGEMENT & ADMINISTRATION

*This section includes courses in the Administrative Services Pathway, Marketing Pathway, NAF Academy of Business Information Management Pathway and NAF Academy of Finance Pathway.*

## BUSINESS, FINANCE & MARKETING ESSENTIALS

0610 / CIP: 06.00300011

FULL YEAR

1 CREDIT

GRADES 9-10

In this course students begin to explore careers in marketing and the basics of modern job interviewing, resume writing and portfolio development. Topics include business law,

communications, customer relations, economics, financial analysis, human resource management, and operations.

*Offered at AIHS and TMHS*

## ADMINISTRATIVE SERVICES

### ADMINISTRATIVE SERVICES II

0607 / CIP: 04.05301022

FULL YEAR

1 CREDIT

GRADES 9-12

In this course students learn tricks and tips for using Microsoft Office in the workplace. PREREQUISITE: Business, Finance & Marketing Essentials.

*Offered at AIHS*

### ADMINISTRATIVE SERVICES III

0608 / CIP: 04.05301033

FULL YEAR OR 1 SEMESTER

1 CREDIT

GRADES 10-12

This course explores the integration of various software applications to solve business problems. Topics include financial functions, amortization schedules, data tables, Excel templates and presentation software for communications. Participation in Business Professionals of America and community service is encouraged.

PREREQUISITE: Administrative Services II.

*Offered at AIHS*

### ADMINISTRATIVE SERVICES IV: BUSINESS, FINANCE & MARKETING IV (CAPSTONE)

0609 / CIP: 04.05301043

FULL YEAR

1 CREDIT

GRADES 11-12

In this course students learn how to create and run privately-owned businesses and franchises by facilitating operations through information management, strategic communications, data processing and project tracking. Topics include accounting, finance, marketing, business technology, decision-making, insuring a business, social responsibility and business ethics.

PREREQUISITE: Administrative Services III.

*Offered at AIHS*

## MARKETING

### MARKETING COMMUNICATIONS II

0653 / CIP: 14.04301022

FULL YEAR

1 CREDIT

GRADES 10-12

In this course students facilitate business operations and examine the role of marketing in a free enterprise economy. With training on graphic design fundamentals and the Adobe Creative Suite, this course teaches the nine marketing functions of selling, distribution, financing, marketing and information management, pricing, product and service planning, promotion, purchasing and risk management. Students develop a comprehensive marketing plan; create new products for graphic design business; and participate in DECA, an entrepreneurship and marketing club. PREREQUISITE: Business, Finance & Marketing Essentials.

*Offered at TMHS*

# BUSINESS MANAGEMENT & ADMINISTRATION

## MARKETING COMMUNICATIONS III

0654 / CIP: 14.04301033  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course students apply marketing and communications principles by managing their own publishing company. Students also refine their marketing plans, hone their graphic design skills, explore careers in marketing and communications, and participate in DECA, an entrepreneurship and marketing club. **PREREQUISITE:** Marketing Communications II.

*Offered at TMHS*

## MARKETING COMMUNICATIONS IV

0656 / CIP: 14.04301033  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course helps students to build the knowledge and decision-making skills needed to start a small business and make it grow. Students study the business arena, examine their role as consumers and develop their own business plan. Students participate in DECA, an entrepreneurship and marketing club. **PREREQUISITE:** Marketing Communications III.

*Offered at TMHS*

## BUSINESS & MARKETING CO-OP

0695  
FULL YEAR  
1 CREDIT  
GRADE 12

In this course students obtain paid employment in the business field under the teacher's direction. Students must provide their own transportation for this course. **PREREQUISITE:** Marketing Communications IV.

*Offered at TMHS*

## MARKETING MANAGEMENT II

0692 / CIP: 52.140112  
FULL YEAR  
1 CREDIT  
GRADES 9-12

In this course students learn basic marketing concepts and how to apply them through both computer simulations and real-world opportunities such as marketing and designing products for the school store. **PREREQUISITE:** Business, Finance & Marketing Essentials.

*Offered at AIHS*

## MARKETING MANAGEMENT III

0693 / CIP: 52.140113  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course students apply marketing concepts, functions, theories and computerized tools to analyze the ways in which economic, consumer and environmental variables affect the marketing process. With topics including selling, pricing, promotion and product, students learn to interpret statistical information, make sound business decisions, apply critical thinking techniques and analyze outcomes. Students also explore pricing and management techniques for small businesses, and marketing's impact on customer and employee relations. **PREREQUISITE:** Marketing Management II.

*Offered at AIHS*

## MARKETING MANAGEMENT IV

0694 / CIP: 52.140114  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course students gain real-world experience by running the school store. Duties include setting store hours, negotiating contracts with vendors, interviewing employees and managing cash flow. Students participate in DECA, an entrepreneurship and marketing club. **PREREQUISITE:** Marketing Management III.

*Offered at AIHS*

# BUSINESS MANAGEMENT & ADMINISTRATION

## NAF ACADEMY OF BUSINESS INFORMATION MANAGEMENT

### BUSINESS INFORMATION TECHNOLOGY

[PENDING COURSE NUMBER] /  
CIP: 4.0260211  
FULL YEAR  
1 CREDIT  
GRADE 9

This course provides students with a solid understanding of the role that ethics holds across professions and an overview of information technology (IT) today. Students consider contemporary IT issues such as security and privacy, the effects of IT on society and the individual and technological inequality.

*Offered at AIHS*

### GLOBAL BUSINESS ECONOMICS

[PENDING COURSE NUMBER] /  
CIP: 4.0260222  
FULL YEAR  
1 CREDIT  
GRADE 10

This course provides students with an introduction to the key concepts of economics as it pertains to business and an understanding of how and why businesses choose to expand their operations into other countries.  
**PREREQUISITE:** Business Information Technology.

*Offered at AIHS*

**ENTREPRENEURSHIP**  
[PENDING COURSE NUMBER] /  
CIP: 4.0260233  
FULL YEAR  
1 CREDIT  
GRADE 11

This course provides students with an introduction to the concept of service as a critical component of business and an understanding of the critical role played by entrepreneurs in the national and global economy. **PREREQUISITE:** Global Business Economics.

*Offered at AIHS*

## NAF ACADEMY OF FINANCE

**FUNDAMENTALS OF FINANCE**  
1073 / CIP: 06.2601011  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course examines the function of finance in society, the role of finance in organizations, and technology's impact on the financial services industry.

**PREREQUISITE:** Business, Finance & Marketing Essentials.

*Offered at AIHS*

**PRINCIPLES OF ACCOUNTING**  
1074 / CIP: 06.2601022  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course teaches the process of accounting and its role in facilitating decision making by providing data to internal and external stakeholders. Students learn to use accounting technology for internal decision making, planning and control.

**PREREQUISITE:** Fundamentals of Finance.

*Offered at AIHS*

### FINANCIAL SERVICES

[PENDING COURSE CODE]  
CIP: 06.2601033  
FULL YEAR  
1 CREDIT  
GRADE 12

This course explores the history of money and banking in the United States. Students learn to research and discriminate between investment options through an in-depth study of the financial services industry. Students also examine the insurance industry and the critical role of insurance in the financial services sector. **PREREQUISITE:** Principles of Accounting.

*Offered at AIHS*

# COMMUNICATION & MEDIA

*This section includes courses in the Audio, Radio & Video Engineering Pathway, Communication Technology Pathway, Digital Communication Arts Pathway, Journalism Pathway, along with other communication and media courses.*

## AUDIO, RADIO & VIDEO ENGINEERING

**AUDIO, RADIO & VIDEO ENGINEERING & DESIGN I**  
0881 / CIP: 03.01302011  
FULL YEAR  
1 CREDIT  
GRADES 9-12

In this course students explore the history of broadcasting, photography, video, storytelling, linear and nonlinear editing, advertising, radio production and audio recording.

*Offered at TMHS*

**AUDIO, RADIO & VIDEO ENGINEERING & DESIGN II**  
0882 / CIP: 03.01302022  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course teaches advanced skills in audio and video production, lighting for video broadcasting, news and journalism production, and radio broadcasting. With topics including radio programming and television news, students have an opportunity to create content for the school's EDGE radio station and the Highlander Morning Show. **PREREQUISITE:** Audio, Radio & Video Engineering & Design I.

*Offered at TMHS*

**AUDIO, RADIO & VIDEO ENGINEERING & DESIGN III**  
0883 / CIP: 03.01302033  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course students to apply skills in audio and video production and radio and television broadcasting. Students produce short films, the Highlander Morning Show and a live radio broadcast. **PREREQUISITE:** Audio, Radio & Video Engineering & Design II.

*Offered at TMHS*

**COMMUNICATION TECHNOLOGY RESEARCH & DESIGN IV**  
0899 (AIHS) / 0998 (TMHS) /  
CIP: 03.01302043  
FULL YEAR  
1 CREDIT  
GRADES 11-12 (AIHS)  
GRADE 12 (TMHS)

This course builds a deeper understanding of communication technology through independent learning, a series of marking period projects and an end-of-year portfolio. **PREREQUISITE:** Drafting & Design: CAD III (AIHS) or Audio, Radio & Video Engineering & Design III (TMHS).

*Offered at AIHS and TMHS*

**EARLY CAREER EXPERIENCE: A/V TECHNOLOGY & FILM**  
0950 / [PENDING CIP NUMBER]  
FULL YEAR  
1 CREDIT  
GRADE 12

In this course students obtain employment in the fields of audio and video technology and film. Students must provide their own transportation. **PREREQUISITE:** Audio, Radio & Video Engineering & Design III.

*Offered at TMHS*



# COMMUNICATION & MEDIA

## COMMUNICATION TECHNOLOGY

### FOUNDATIONS OF DIGITAL DESIGN

**0896 / CIP: 3.03604011**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

This course introduces students to the foundational principles, techniques, and skills of visual communications. Students learn the elements and principles of design, color theory, typography, packaging/promotional design, copyright/fair use, and image manipulation techniques along with the communication skills required to work within the media industry and client-based realm. Students begin to develop the capstone cumulative professional portfolio.

*Offered at AIHS*

### COMMUNICATION TECHNOLOGY II

**0897 / CIP: 11.03301022**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 10-12**

In this course students dive deeper into the Adobe Creative Suite, public speaking and the Technology Student Association. Students also have the opportunity to work with the Red Clay Communications Center. **PREREQUISITE:** Foundations of Digital Design.

*Offered at AIHS*

## COMMUNICATION TECHNOLOGY III

**0898 / CIP: 11.03301033**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 11-12**

In this course students receive advanced instruction on the Adobe Creative Suite and participate in community outreach and national multimedia competitions. Students also create content for the Red Clay Communications Center and maintain the school's digital signage and daily announcements. **PREREQUISITE:** Communication Technology II.

*Offered at AIHS*

## COMMUNICATION TECHNOLOGY IV

**0898 / CIP: 03.01302043**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 11-12**

This course builds leadership experience through participation in student organizations and competitions. Students develop a portfolio and assume greater responsibility in managing content for the Red Clay Communications Center, the school's digital signage and daily announcements. **PREREQUISITE:** Communication Technology III.

*Offered at AIHS*

## DIGITAL COMMUNICATION ARTS

### FOUNDATIONS OF DIGITAL DESIGN

**0896 / CIP: 3.03604011**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

This course introduces students to the foundational principles, techniques, and skills of visual communications. Students learn the elements and principles of design, color theory, typography, packaging/promotional design, copyright/fair use, and image manipulation techniques along with the communication skills required to work within the media industry and client-based realm. Students begin to develop the capstone cumulative professional portfolio.

*Offered at CCSA*

### DIGITAL MEDIA & IMAGING I

**0851 / CIP: 03.03301011**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

In this course students learn how to create digital media and images using industry-standard tools and technology including the Adobe Creative Suite. Students explore the elements of composition, principles of design and professional ethics while developing their technical skill set and artistic ability.

*Offered at JDHS*

# COMMUNICATION & MEDIA

**DIGITAL MEDIA & IMAGING II**  
0852 / CIP: 03.03301022  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course challenges students to apply their understanding of digital media and imaging technology in a web-based context. Students use advanced tools, materials and design processes to produce digital media and imaging for websites. **PREREQUISITE:** Digital Media & Imaging I.

*Offered at CCSA and JDHS*

**DIGITAL MEDIA & IMAGING III**  
0853 / CIP: 03.03301033  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course students learn advanced photography, videography, cinematography, animation and 3D integration. Students practice real-world problem solving by applying and transferring the design process to create a more evolved image that conveys a specific message.

**PREREQUISITE:** Digital Media & Imaging II.

*Offered at CCSA and JDHS*

**DIGITAL MEDIA & IMAGING IV**  
1000 / CIP: 03.01302043  
FULL YEAR  
1 CREDIT  
GRADE 12

This course encourages students to focus on their own professional interests through an independent study project. Students explore careers in digital media such as a graphic design, print design, web design, programming and visual arts teacher.

**PREREQUISITE:** Digital Media & Imaging III.

*Offered at CCSA*

# COMMUNICATION & MEDIA

## JOURNALISM

### JOURNALISM I

0162  
FULL YEAR  
1 CREDIT  
GRADES 9-11

This course introduces students to newspaper journalism and writing. Topics include the fundamentals of news; feature, editorial and sports writing; copy reading; news style; and editing. Students create original stories using varied structures and writing techniques.

*Offered at AIHS, CSS and JDHS*

### JOURNALISM II

0163  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course covers all aspects of printed media production, including writing, editing, photography, art, layout, business management and advertising. **PREREQUISITE:** Journalism I.

*Offered at AIHS*

## OTHER

### 21ST CENTURY TECHNOLOGY & DIGITAL MEDIA

0999  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course explores the use of media tools to enhance communication, creativity, problem solving, collaboration and critical thinking. Students learn how to write scripts, create storyboards and podcasts, and produce digital stories through filmmaking and other media-rich presentations.

*Offered at CSS*

### WEB DESIGN & ANIMATION

0609 (CSS) / 0623 (TMHS)  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course introduces students to Adobe InDesign, Illustrator and Photoshop. In InDesign, students learn to set up a document and work with text, frames and colors. In Illustrator, students learn to create text and gradients, compose an illustration, transform and distort objects, and work with layers. In Photoshop, students learn to work with layers, make selections, incorporate color techniques, and place type in an image. Students may also participate in DECA competitive events.

*Offered at CSS and TMHS*

*(Note: This course may be taught as a distance learning course.)*

## DUAL ENROLLMENT

### AN 201: ANIMATION I

DCAD  
0788  
FULL YEAR  
1 CREDIT  
GRADES 11-12

An introduction to general animation techniques, this course combines theoretical elements of film aesthetics with practical experience in animation filmmaking. Students are exposed to all types of animated film production through lectures, film presentations, studio work and outside assignments that utilize traditional and digital means to explore creative possibilities. Class projects include hand-drawn animation, digital cell animation, stop motion and experimental techniques.

*Offered at CCSA*

# DANCE

**DANCE I**  
**0731**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

This course is intended for the beginning to intermediate dancer at the high school level. In this course, students will study ballet and modern techniques to grow technically, enhance their presentation, gain strength, and be agile to become versatile dancers. Students will learn ballet and dance terminology, dance history, psychology of dance, improvisation and choreography, anatomy, and injury prevention to make them more informed of the art of dance and themselves as dancers and artists.  
**PREREQUISITE:** Dance experience.

*Offered at CCSA*

**DANCE II**  
**0732**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 10-12**

This course is intended for the intermediate dancer at the high school level. In this course, students will study ballet and modern techniques to grow technically, enhance their presentation, gain strength, and be agile to become versatile dancers. Students will learn ballet and dance terminology, dance history, psychology of dance, improvisation and choreography, anatomy, and injury prevention to make them more informed of the art of dance and themselves as dancers and artists.  
**PREREQUISITE:** Dance I.

*Offered at CCSA*

**DANCE III**  
**0733**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 11-12**

This course is intended for the advanced dancer at the high school level. In this course, students will study ballet and modern techniques to grow technically, enhance their presentation, gain strength, and be agile to become versatile dancers. Students will learn ballet and dance terminology, dance history, psychology of dance, improvisation and choreography, anatomy, and injury prevention to make them more informed of the art of dance and themselves as dancers and artists.  
**PREREQUISITE:** Dance II.

*Offered at CCSA*

# DANCE

## DANCE COMPOSITION & CHOREOGRAPHY

0736  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This course teaches advanced dancers to express their artistic voices through dance choreography. Students will refine their dance ability and create meaningful choreographic work through solos, duets, trios, quartets and ensemble pieces. Students will also develop their creative potential through improvisation and structural forms inspired by visual arts, text, sound, chance forms, non-traditional spaces and music compositions.

*Offered at CCSA*

## HIGH SCHOOL DANCE COMPANY

0734  
1 MARKING PERIOD  
0.25 CREDIT  
GRADES 9-12

This course teaches ballet, modern, jazz and theater choreography for Show stoppers, with performance opportunities in the spring. In the past, the company has performed at the Kennedy Center, the Kimmel Center for the Arts, the Delaware Dance Festival, the University of Delaware and the Wilmington Flower Market. This is an after-school course. **PREREQUISITE:** Audition.

*Offered at CCSA*

## JAZZ TECHNIQUE (LEVELS I-III)

0737  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This course emphasizes classical, contemporary, lyrical and theater jazz techniques. Students will perform warm-up and strengthening exercises, center combinations and sequences, and moving across the floor. Topics also include the history of jazz dance, the many forms of jazz that have evolved over time and important figures in jazz.

*Offered at CCSA*

## POINTE, VARIATIONS & REPERTORY

0739  
FULL YEAR  
1 CREDIT  
GRADES 9-12

In this course students build strength and technique in ballet while performing on pointe. Students will perform repertoire and variations from various ballets to gain virtuosity on pointe and improve presentation and style. Students will also learn about different ballets and choreographers. **PREREQUISITE:** Two years of pointe experience.

*Offered at CCSA*

# DRIVER EDUCATION

## DRIVER EDUCATION

0721

1 MARKING PERIOD

0.25 CREDIT

GRADE 10

This course covers the study of Delaware driving laws and the principles of safe driving. Students must complete 30 hours of classroom, 7 hours of behind the wheel instruction as well as 7 hours of observation. If simulators are available, 4 hours of simulation will equal 1 hour of behind the wheel instruction. Once the classroom and in-car instruction is completed, each student MUST log 50 hours of supervised driving during the first six months while on the Level 1 permit.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

# EARLY COLLEGE ACADEMY

**DUAL ENROLLMENT**  
**BBM 102: INTRODUCTION**  
**TO BUSINESS**  
 WILMINGTON UNIVERSITY  
 1499  
 FULL YEAR  
 1 CREDIT  
 GRADE 10

This course is designed to provide a broad overview of the functions of the business entity. Topics include business and its environment, organization and management, finance, production, marketing, human resources, and control systems.

*Offered at AIHS*

**DUAL ENROLLMENT**  
**CTA 210: COMPUTER**  
**SCIENCE**  
 WILMINGTON UNIVERSITY  
 1490  
 FULL YEAR  
 1 CREDIT  
 GRADE 9

This course introduces both the theory and application of modern day computing and how market forces have influenced developments. It compares the Macintosh platform with the PC platform and looks at file preparations, file management, storage, and retrieval on both. Particular emphasis is placed on the role of the Macintosh platform in the design world so students are prepared for courses such as desktop publishing, web design and video editing.

*Offered at AIHS*

**DUAL ENROLLMENT**  
**ENG 121: ENGLISH**  
**COMPOSITION I**

*See English section for course description.*

**DUAL ENROLLMENT**  
**ENG 122: ENGLISH**  
**COMPOSITION II**

*See English section for course description.*

**DUAL ENROLLMENT**  
**FYE 101: FIRST YEAR**  
**EXPERIENCE**  
 WILMINGTON UNIVERSITY  
 1400  
 FULL YEAR  
 1 CREDIT  
 GRADE 9

This course introduces students to Wilmington University with a focus on building the skills, knowledge and dispositions needed to succeed in higher education. Students will learn how to locate information, think critically and engage as active members of the University community. Topics include time management, self-knowledge, wellness, reading, writing, APA format, technology, University information, student services, campus organizations and academic integrity policies.

*Offered at AIHS*

# EARLY COLLEGE ACADEMY

**DUAL ENROLLMENT**  
**HIS 204: WORLD HISTORY**  
 WILMINGTON UNIVERSITY  
 1470  
 FULL YEAR  
 1 CREDIT  
 GRADE 10-12

This course studies the major cultural, economic, military, political, religious and social events from Antiquity to the Scientific Revolution. In this course students examine Western Europe and its contacts and inter-relationships with the rest of the world including the peoples of Eastern Europe, the Middle East, Africa, Asia and the Americas.

*Offered at AIHS*

**DUAL ENROLLMENT**  
**MUS 302: HISTORY OF**  
**ROCK AND ROLL**  
 WILMINGTON UNIVERSITY  
 (PENDING COURSE NUMBER)  
 FULL YEAR  
 1 CREDIT  
 GRADE 11

This course explores the emergence of Rock and Roll as a musical genre in America in the mid-twentieth century. Historical events and technology will be discussed in relation to their influence on Rock and Roll music. Specific pieces of music will be analyzed in terms of compositional structure, instrumentation, historical significance, and cultural influence.

*Offered at AIHS*

**DUAL ENROLLMENT**  
**SCI 240: CONCEPTS IN**  
**PHYSICS**  
 WILMINGTON UNIVERSITY  
 (PENDING COURSE NUMBER)  
 FULL YEAR  
 1 CREDIT  
 GRADE 11

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Emphasis is placed on the physics of everyday life and how things work. Topics include basic concepts of motion, forces, energy, fluid mechanics, heat, electricity, magnetism, and waves. Upon completion, students should be able to describe examples and applications of the principles studied. Computer-based exercises will be used to enhance and consolidate the understanding of basic physical principles and applications.

*Offered at AIHS*



# EDUCATION & HUMAN STUDIES

*This section includes courses in the Early Childhood Education Pathway and K-12 Teacher Academy Pathway, along with other education and human studies courses.*

## EARLY CHILDHOOD EDUCATION

### HUMAN GROWTH AND DEVELOPMENT

**0964 / CIP: 10.01301011**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-10**

Introduces students to human physical, cognitive, social, and emotional development beginning with conception and ending with adulthood. Theories supporting current thinking and research on human development are examined, as well as the processes and influences affecting the developing person. Students will also explore challenges to typical growth and developmental sequences.

*Offered at TMHS*

### CHILD DEVELOPMENT II

**0965 / CIP: 10.01301022**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 10-11**

This course focuses on the physical, intellectual, social and emotional development of children. With an understanding of proven child development theories and practices, students learn to plan for and interact with children through developmentally appropriate activities. Students develop a deeper understanding of the importance of both the family and child care providers in the life of children, with the opportunity to experience the school's preschool center and interact with materials and supplies that are common in child care centers and early education. Students also learn about careers in early childhood.

**PREREQUISITE:** Human Development I.

*Offered at TMHS*

### EXPLORING EARLY CHILDHOOD III

**0966 / CIP: 10.01301033**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 11-12**

This course offers the opportunity to plan, design and work in programs that meet children's developmental needs and interests while providing a safe and healthy environment. Students examine the varied needs of children and the importance of their early years. Students also learn about the establishment of a child care center, plan for the needs of the children and staff and serve as teachers in the school's preschool center.

**PREREQUISITE:** Child Development II.

*Offered at TMHS*

### EARLY CHILDHOOD EDUCATION IV

**0967 / CIP: 10.01301043**  
**FULL YEAR**  
**1 CREDIT**  
**GRADE 12**

This course involves extensive study and interactions with the Child Development Associate Competencies, thirteen standards that early childhood professionals are expected to master. Students explore careers in child development, post-secondary educational opportunities and community resources for families. Students serve as head teachers and assistant directors in the school's preschool center. **PREREQUISITE:** Exploring Early Childhood III.

*Offered at TMHS*

# EDUCATION & HUMAN STUDIES

## EARLY CHILDHOOD EDUCATION CO-OP 0968 / FULL YEAR 1 CREDIT GRADE 12

This course takes a deeper look at the Child Development Associate Competencies, with students continuing their role as head teachers and assistant directors in the school's preschool center. **PREREQUISITE:** Early Childhood Education IV.

*Offered at TMHS*

## K-12 TEACHER ACADEMY

## HUMAN GROWTH & DEVELOPMENT I 1025 / CIP: 05.03602011 FULL YEAR 1 CREDIT GRADES 9-12

This course introduces students to human growth and development from conception to early adolescence. Topics include physical, cognitive, social, and emotional development, with students exploring challenges to normal growth and development.

*Offered at AIHS and TMHS*

## TEACHING AS A PROFESSION 1026 / CIP: 05.03602022 FULL YEAR 1 CREDIT GRADES 10-12

This course explores the role of the teacher in the past, present and future. With a focus on the importance of teaching in American society, students examine the historical significance and social impact of teaching, the responsibilities and opportunities of effective teachers at various grade bands, and the function of the teacher as a leader. Students also identify their own professional goals to help them build a path to teaching. **PREREQUISITE:** Human Growth & Development.

*Offered at AIHS and TMHS*

## FOUNDATIONS OF CURRICULUM & INSTRUCTION 1027 / CIP: 05.03602033 FULL YEAR 1 CREDIT GRADES 11-12

This course explores curriculum delivery models in response to the needs of the learner. With an emphasis on developing instructional materials that promote a supportive classroom environment, students analyze technology's impact on learning, build lesson plans and assessments, and practice classroom management techniques that maximize learning for different types of students. **PREREQUISITE:** Teaching as a Profession.

*Offered at AIHS and TMHS*

## OTHER

## PEER TUTORING 0724 FULL YEAR 1 CREDIT GRADES 11-12

In this course students are assigned to a teacher or a team of teachers to offer academic assistance to middle school students either in a group setting or one-on-one. Placements are based on students' personal strengths and abilities. This course is designed for students who are considering pursuing a degree in education.

*Offered at CSS*

# ENGLISH

## ENGLISH 9

0111-H / 0112-CP / 0115  
FULL YEAR  
1 CREDIT  
GRADE 9

This course builds critical reading skills and focuses on creating inferences, studying themes and central ideas, and analyzing complex characters. Students will also learn how to use context clues to determine meaning, analyze point of view and find an author's purpose.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## ENGLISH 10

0121-H (AIHS, CCSA, JDHS & TMHS)  
/ 0122-CP / 0125  
FULL YEAR  
1 CREDIT  
GRADE 10

This course covers literary, nonfiction, informative and technical texts, while exploring other studies such as research and drama. Students will practice the writing process and enhance their grammar, vocabulary, and study skills. **PREREQUISITE:** English 9.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## ENGLISH 11

0131-H / 0132-CP / 0135  
FULL YEAR  
1 CREDIT  
GRADE 11

This course integrates the study of American literature with grammar and composition. Students will trace the growth of American literary periods through a concentrated study of poetry, prose and seminal documents. **PREREQUISITE:** English 10.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## ENGLISH 12

0141-H / 0142-CP / 0145  
FULL YEAR  
1 CREDIT  
GRADE 12

This course helps to refine communication skills through an integrated study of literature, informational text, writing, speaking, listening and language. Students will explore texts on themes such as justice, gender roles, and social protest, with close reading and analysis of selected works from major classical English writers. This course covers classic writers such as Geoffrey Chaucer, William Shakespeare and Jonathan Swift, along with modern writers and orators like Malcolm Gladwell, Mohammed Naseehu Ali and Michael Lewis. **PREREQUISITE:** English 11.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## ENGLISH LANGUAGE DEVELOPMENT (ELD)

0166 / 0167  
FULL YEAR  
1 CREDIT  
GRADES 9-12

With an instructional focus on the development of both academic language skills and social communication, this course is designed to promote high levels of English language proficiency in the areas of speaking, listening, reading and writing. Placement in this course is determined by English language proficiency level.

*Offered at AIHS*

## AP ENGLISH LANGUAGE & COMPOSITION

0130  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course is designed to prepare students for the AP English Language and Composition Exam. Students strengthen the effectiveness of their writing through close reading and frequent practice at applying rhetorical strategies, analyzing information from source texts and writing arguments. Students also learn how to become critical readers of predominantly nonfiction works, including expository, argumentative, analytical and personal texts from various authors and time periods.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

# ENGLISH

## AP ENGLISH LITERATURE & COMPOSITION

0140  
FULL YEAR  
1 CREDIT  
GRADE 12

This course is designed to prepare students for the AP English Literature and Composition Exam. Students engage in the careful reading and critical analysis of imaginative literature, deepening their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Students learn to consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## IB ENGLISH HL 11

2131  
FULL YEAR  
1 CREDIT  
GRADE 11

This is a two-year course beginning in the student's junior year. This course focuses on exploring the diversity of the global community as well as fostering an appreciation for the student's own culture. Students complete a variety of assessments including oral presentations, literary analysis, and some creative writing assignments based on the text that is being studied in class. While these assessments are mandatory, students will periodically have choices of text to analyze and the means by which the assessment is accomplished.

*Offered at JDHS*

## IB ENGLISH HL 12

2141  
FULL YEAR  
1 CREDIT  
GRADE 12

This is the conclusion of the two-year IB English HL course. **PREREQUISITE:** IB English HL 11.

*Offered at JDHS*

## CREATIVE WRITING I

0171  
FULL YEAR  
1 CREDIT  
GRADES 9-12

In this course, students learn to express themselves through writing. Students will be guided through descriptive writing, fiction and non-fiction short story writing, journal writing and poetry, with a portfolio of their work compiled at the end of the course.

*Offered at CCSA, CSS and JDHS*

## CREATIVE WRITING II

0172  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course will build on Creative Writing I by focusing on the relationship between the author and the audience. Students will learn the art of storytelling across genres while sharpening their skills in terms of conflict, character, description and dialogue. Students will also explore nonfiction writing and journalistic elements such as article writing, interviewing a subject, and satire in opinion pieces. **PREREQUISITE:** Creative Writing I.

*Offered at CCSA*

# ENGLISH

## CREATIVE WRITING III

0172  
FULL YEAR  
1 CREDIT  
GRADES 11-12

Through intense writing, critiquing, and personal reflection, students will develop their professional voice and style by creating works of poetry, fiction and nonfiction. Students will also explore the works of contemporary writers and gain a deeper understanding of the publication process. **PREREQUISITE:** Creative Writing II.

*Offered at CCSA*

## RESEARCH & TECHNICAL WRITING

0174  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course emphasizes information seeking strategies, effective communication, and information literacy. Students will learn the basics of technical writing to prepare them for writing in science-related careers or other industries.

*Offered at CSS*

## YEARBOOK

0160  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course takes students through all phases of producing the school yearbook, from editing and layout to design and copywriting.

*Offered at AIHS, CCSA, CSS and JDHS*

## DUAL ENROLLMENT ENG 101: CRITICAL THINKING & ACADEMIC WRITING

DELAWARE TECH  
0181  
1 SEMESTER  
1 CREDIT  
GRADES 11-12

This course is designed to teach the concepts of critical thinking and reading skills in the context of written response and essay writing. This course introduces and reinforces the skills necessary to complete academic essays and to respond to diverse texts in meaningful ways.

*Offered at CSS, JDHS and TMHS*

## DUAL ENROLLMENT ENG 102: COMPOSITION & RESEARCH

DELAWARE TECH  
0182  
1 SEMESTER  
1 CREDIT  
GRADES 11-12

This course is designed to enhance writing, research and speaking skills and to provide academic writing and reasoning skills to foster lifelong learning. **PREREQUISITE:** ENG 101: Critical Thinking & Academic Writing (Delaware Tech).

*Offered at CSS, JDHS and TMHS*

## DUAL ENROLLMENT ENG 121: ENGLISH COMPOSITION I

WILMINGTON UNIVERSITY  
1410  
1 SEMESTER  
0.5 CREDIT  
GRADE 12

In this course students will study and apply the principles of effective writing and APA style. Students will also examine rhetorical patterns such as description, narration, compare and contrast, and extended definition.

*Offered at AIHS*

## DUAL ENROLLMENT ENG 122: ENGLISH COMPOSITION II

WILMINGTON UNIVERSITY  
1411  
1 SEMESTER  
0.5 CREDIT  
GRADE 12

In this course students will learn how to think more clearly, organize their thoughts in a logical sequence, and improve their writing skills through prewriting, writing, and revision processes. Students will continue to study rhetorical patterns and use their writing skills to develop essays focused on process analysis, cause and effect, and argument/persuasion. Students will also learn the stages of writing a research paper, from researching a topic, to assessing and incorporating outside sources. **PREREQUISITE:** ENG 121 English Composition I (WU).

*Offered at AIHS*

# HEALTH & PHYSICAL EDUCATION

## HEALTH EDUCATION

0711  
1 SEMESTER  
0.5 CREDIT  
GRADES 10-12

In this course, students will develop an understanding of the relationship between personal behavior and health. Topics include nutrition and physical activity; personal health and wellness; mental and emotional health; family life and sexuality; and tobacco, alcohol and drugs.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## PHYSICAL EDUCATION I

0701  
1 SEMESTER  
0.5 CREDIT  
GRADE 9

This introductory course emphasizes physical conditioning through weight training, team sports, track and field, badminton, archery and tennis.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## PHYSICAL EDUCATION II

0702  
1 SEMESTER  
0.5 CREDIT  
GRADES 9-12

Students continue physical education through more physical conditioning and fitness activities including softball, soccer, archery, tennis, basketball, badminton, volleyball and touch football. **PREREQUISITE:** Physical Education I.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## PHYSICAL EDUCATION III

0703  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course is open to school athletes and students who are looking for a more challenging physical education course. Rigorous training programs focus on functional strength, power, balance, flexibility, core stability, speed and cardiovascular endurance. Students can also follow training programs suggested by their coaches, with the option to train during their off-season, pre-season, and in-season in a supervised setting during the school day. **PREREQUISITE:** Physical Education II.

*Offered at TMHS*

## STRENGTH & CONDITIONING

0704  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course students will develop their overall athleticism and sport performance to become stronger, faster and remain injury-free. Structured programs include sport-specific exercises and drills that promote strength, speed, agility, plyometrics, flexibility, balance and conditioning work. **PREREQUISITE:** Physical Education II.

*Offered at AIHS, CSS and JDHS*

## LIFETIME WELLNESS

0718  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course concentrates on the sport-specific aspect of strength and conditioning. With a review of acute program variables, resistance training prescriptions and progression, students complete exercise prescriptions including multiple sets and periodization within a resistance program, approaches and organization of aerobic training, and speed and agility. **PREREQUISITE:** Strength & Conditioning.

*Offered at CSS*

## DUAL ENROLLMENT BIO 106: BASIC NUTRITION CONCEPTS

DELAWARE TECH  
1006  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This class is designed to teach basic nutrition concepts that can be applied to everyday life in order to maintain a healthy lifestyle and well-being. The curriculum includes weight control and management, shopping wisely and reading food labels, and understanding your diet and health. Students create and participate in a fitness plan and complete a personal food diary for the final exam.

*Offered at AIHS*

# HEALTH SCIENCES

*This section includes an introductory health science course at Conrad Schools of Science, along with courses in the Biomedical Sciences Pathway, Nursing Pathway, and Physical Therapy & Sports Medicine Pathway.*

## INTRODUCTION TO HEALTH SCIENCE

1301 / CIP: 17.01301011  
FULL YEAR  
1 CREDIT  
GRADE 9

This course introduces students to the concepts and aptitudes necessary to prepare for a variety of health professions so that the student is able to make an informed career pathway choice for the sophomore through senior years. Students are exposed to and participate in many beginning level healthcare skills and topics, such as infection control; the meaning of and the skills and equipment needed for taking vital signs; using and assembling wheelchairs; using goniometers, practicing body mechanics and other mobility, safety, and rehabilitation topics such as gait analysis, tissue healing, and related anatomy. Students are encouraged to join and participate in HOSA, a student organization for future health professionals.

*Offered at CSS*

## BIOMEDICAL SCIENCES

### BIOMEDICAL I: PRINCIPLES OF THE BIOMEDICAL SCIENCES

1241 / CIP: 15.02602011  
FULL YEAR  
1 CREDIT  
GRADE 10

This course investigates health conditions such as heart disease, diabetes, sickle-cell disease, hypercholesterolemia and infectious diseases. Students determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. Topics include human physiology, medicine and research processes.

*Offered at CSS*

### BIOMEDICAL II: HUMAN BODY SYSTEMS

1242 / CIP: 15.02602022  
FULL YEAR  
1 CREDIT  
GRADE 11

This course takes a closer look at the mechanisms that keep the body functioning. Students learn how to use LabVIEW to write programs that allow them to collect data from experiments they design. The focus is on how the human body is a system that requires the coordinated actions of multiple interrelated systems, each responsible for various actions. **PREREQUISITE:** Biomedical I: Principles of the Biomedical Sciences.

*Offered at CSS*

### BIOMEDICAL III: MEDICAL INTERVENTIONS

1243 / CIP: 15.02602033  
FULL YEAR  
1 CREDIT  
GRADE 12

In this course students explore a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a how-to manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices and diagnostics.

**PREREQUISITE:** Biomedical II: Human Body Systems.

*Offered at CSS*

# HEALTH SCIENCES

## NURSING

### NURSING TECHNOLOGY I: FUNDAMENTALS OF HEALTH SCIENCES 1302 / CIP: 08.01610011 FULL YEAR 1 CREDIT GRADE 10

This course introduces students to careers in healthcare. Topics include medical terminology which includes Greek and Latin prefixes, suffixes, roots, abbreviations, names of diseases and surgeries related to hospital services and healthcare specialties. Students also explore the National Consortium Health for Science Education (NCHSE) Health Science Standards, begin preparation for the NCHSE National Health Science Assessment, learn entry-level healthcare skills and develop a foundation in the language of medicine. Further, this course will be offered as an articulated course with Delaware Technical Community College (BIO100 Medical Terminology). Students who successfully complete this course will receive articulated credit for DTCC BIO 100 Medical Terminology (3 credits).

*Offered at CSS*

### NURSING TECHNOLOGY II: ESSENTIALS OF ANATOMY & PHYSIOLOGY 1303 / CIP: 08.01610022 FULL YEAR 1 CREDIT GRADE 11

In this course students explore the structure and function of the human body with an emphasis on gross anatomy, organ systems and their relationship to homeostasis. Students learn physiology of each body system; common diseases, disorders and emerging diseases; and prevention, diagnosis and treatment of disease. This course also challenges students to focus on a career path in nursing by applying classroom and lab knowledge to clinical settings as they participate in direct or simulated patient care. Students participate in the CPR / First Aid certification program (Healthcare Provider Level) through the American Heart Association. Students who successfully complete this course will receive articulated credit for DTCC BIO 110 Essentials of Anatomy & Physiology (4 credits). **PREREQUISITE:** Nursing Technology I: Fundamentals of Health Sciences.

*Offered at CSS*

### NURSING TECHNOLOGY III: CERTIFIED NURSE ASSISTING 1304 / CIP: 08.01610033 FULL YEAR 2 CREDITS GRADE 12

This course covers long-term care with students learning how to provide personal care and practice basic nursing skills under the direction of a licensed nurse. In in-school and out-of-school clinical lab settings, this course uses clinical scenarios and simulated patient conditions to introduce students to clinical knowledge and communication skills needed in the healthcare industry. Students transfer knowledge and skills to an approved long-term care facility while providing supervised care to residents. Seventy-five (75) clinical hours are required by Title 16 Health and Safety under the Delaware Department of Health and Social Services, Division of Long-Term Care Residence Protection. Upon the completion of the program of study, students complete the National Consortium for Health Science Education (NCHSE) National Health Science Assessment and the Prometric Delaware Nurse Aide Exam. Students who successfully complete this course will receive articulated credit for DTCC HLH 130 Nurse Assistant Training (6 credits). **PREREQUISITE:** Nursing Technology II: Essentials of Anatomy & Physiology.

*Offered at CSS*



# HEALTH SCIENCES

## PHYSICAL THERAPY & SPORTS MEDICINE

**PHYSICAL THERAPY & ATHLETIC HEALTHCARE I**  
 0977 / CIP: 08.01404011  
 FULL YEAR  
 2 CREDITS  
 GRADE 10

This course is designed to build a basic foundation for the physical therapy athletic healthcare fields. Topics to include medical terminology, human body systems, disease and infection control. Students may earn certification in First Aid and CPR/AED.

*Offered at CSS*

**PHYSICAL THERAPY & ATHLETIC HEALTHCARE II**  
 0978 / CIP: 08.01404022  
 FULL YEAR  
 2 CREDITS  
 GRADE 11

This course provides an overview of the field of sports medicine and the sports medicine team. Content includes mechanism of injuries; assessment/evaluation, prevention and rehabilitation; protective taping, bracing, and wrapping; concussion identification and management, organization and administration of an athletic training facility.

**PREREQUISITE:** Physical Therapy & Athletic Healthcare I.

*Offered at CSS*

**PHYSICAL THERAPY & ATHLETIC HEALTHCARE III**  
 0979 / CIP: 08.01404033  
 FULL YEAR  
 2 CREDITS  
 GRADE 12

Students further their understanding of the effect of exercise on various body systems. Topics include sport psychology, exercise physiology, and biomechanics. Students participate in observation at an inpatient or outpatient physical therapy clinic as they interact with physical therapists, patients, and other staff members. Independent projects based on HOSA Future Health Professionals standards and a written research paper are required. Students may earn re-certification in First Aid and CPR/AED. In order to participate in clinicals, students may be required to have updated vaccinations, background checks with fingerprinting, or drug screens with the school nurse at a cost to the student. **PREREQUISITE:** Physical Therapy & Athletic Healthcare II.

*Offered at CSS*

# HOSPITALITY & TOURISM

*This section includes courses in the Culinary Arts & Hospitality Management Pathway.*

## CULINARY ARTS & HOSPITALITY MANAGEMENT

### COOKING & CULINARY ARTS I

1031 / CIP: 09.01603011

FULL YEAR

1 CREDIT

GRADES 9-12

This course offers an introduction to nutrition and preparing foods for a healthy lifestyle, with an emphasis on safety, sanitation and technology in the classroom and laboratory settings. Students use equipment and terminology to perform entry-level tasks in the kitchen; work independently and in groups to prepare nutritious foods; and demonstrate skills in supervisory/co-worker relations, customer service, social acceptance, dependability and effective communication. Students also learn to bring academics in the kitchen, understanding the importance of reading, writing, math and science for a successful career in the food industry.

*Offered at TMHS*

### COOKING & CULINARY ARTS II

1032 / CIP: 09.01603022

FULL YEAR

1 CREDIT

GRADES 10-12

This course focuses on safety and sanitation using the Hazard Analysis Critical Control Point Program (HACCP), the system used by the food service industry to ensure food safety. Students incorporate standards from the hospitality industry through the identification and use of small and large utensils, appliances and equipment during food preparation; read, plan, design and prepare meals and menus; and explore careers and qualifications in the food industry.

**PREREQUISITE:** Cooking & Culinary Arts I.

*Offered at TMHS*

### COOKING & CULINARY ARTS III

1033 / CIP: 09.01603033

FULL YEAR

1 CREDIT

GRADES 11-12

In this course students develop a solid foundation of proven culinary theory on which to build a repertoire of professional skills. Basic industry techniques and safety procedures are woven into instruction. Students practice skills for employment in the food industry. **PREREQUISITE:**

Cooking & Culinary Arts II.

*Offered at TMHS*

### FOOD & CULINARY CO-OP 0973

FULL YEAR

1 CREDIT

GRADE 12

In this course students are expected to obtain paid employment in the food and culinary field, with direction from the pathway teacher. Students must provide their own transportation.

**PREREQUISITE:** Cooking & Culinary Arts III.

*Offered at TMHS*

# HOSPITALITY & TOURISM

## FOOD PREPARATION & PRODUCTION I

0926 / CIP: 09.01302011

FULL YEAR

1 CREDIT

GRADES 9-12

This course offers an introduction to nutrition and preparing foods for a healthy lifestyle, with an emphasis on safety, sanitation and technology in the classroom and laboratory settings. Students use equipment and terminology to perform entry-level tasks in the kitchen; work independently and in groups to prepare nutritious foods; and demonstrate skills in supervisory/co-worker relations, customer service, social acceptance, dependability and effective communication. Students also learn to bring academics in the kitchen, understanding the importance of reading, writing, math and science for a successful career in the food industry.

*Offered at AIHS*

## FOOD PREPARATION & PRODUCTION II

0927 / CIP: 09.01302022

FULL YEAR

1 CREDIT

GRADES 10-12

This course focuses on safety and sanitation using the Hazard Analysis Critical Control Point Program (HACCP), the system used by the food service industry to ensure food safety. Students incorporate standards from the hospitality industry through the identification and use of small and large utensils, appliances and equipment during food preparation; read, plan, design and prepare meals and menus; and explore careers and qualifications in the food industry.

**PREREQUISITE:** Food Preparation & Production I.

*Offered at AIHS*

## FOOD PREPARATION & PRODUCTION III

0928 / CIP: 09.01302033

FULL YEAR

1 CREDIT

GRADES 11-12

In this course students develop a solid foundation of proven culinary theory on which to build a repertoire of professional skills. Basic industry techniques and safety procedures are woven into instruction. Students practice skills for employment in the food industry. **PREREQUISITE:** Food Preparation & Production II.

*Offered at AIHS*

# INSTRUMENTAL MUSIC

*This section includes courses in the Instrumental Music Pathway, Instrumental Music Program of Study, Piano Pathway, Strings Pathway, along with other instrumental music courses.*

## CHAMBER ORCHESTRA

**0823**  
**1 SEMESTER**  
**0.5 CREDIT**  
**GRADES 9-12**

This course focuses on three programs a year covering music from every genre. Students learn advanced works and how to follow a conductor and play together as a small group (20-22 students). The orchestra collaborates once a year with a combined concert with the school's vocal program or dance programs. **PREREQUISITE:** Audition.

*Offered at CCSA*

## FRESHMAN BAND

**0818**  
**FULL YEAR**  
**1 CREDIT**  
**GRADE 9**

This course is designed to address the specific needs of the freshman band student. This concert band will perform two mandatory concerts per year. Students are also encouraged to participate in marching band. **PREREQUISITE:** Middle school concert band, or private instrument lessons within the past two years.

*Offered at JDHS*

## FUNDAMENTALS OF MUSIC THEORY

**0830**  
**1 SEMESTER**  
**0.5 / 1 CREDIT**  
**GRADES 9-12**

This course covers music theory topics for the beginner. Music theory principles will be introduced and applied as students learn the ins and outs of basic theory through sight-reading, ear training, dictation and class discussion.

*Offered at AIHS and CCSA*

## GUITAR I

**1216**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

In this course students will explore basic musical concepts such as tone, pitch, rhythm, melody, harmony, texture and expression, through group instruction on the guitar.

*Offered at AIHS and TMHS*

## GUITAR II

**1217**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

This course continues the exploration of tone, pitch, rhythm, melody, harmony, texture and expression through individual and group coaching on the guitar.

*Offered at TMHS*

## HARMONY I

**0831**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

In this course students analyze harmony both horizontally and vertically while learning how to harmonize melodies from figured bass notation, write original melodies over a given bass line and compose original music using the rules of four-part harmony. Topics include diatonic harmony, dissonance treatments, elementary formal structures, melodic analysis and writing, secondary harmonies and elementary modulation. **PREREQUISITE:** Fundamentals of Music Theory.

*Offered at CCSA*

## HARMONY II / ADVANCED MUSIC THEORY

**0832**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 10-12**

Students will study extended harmonies, arrange for small instrumental ensembles, and harmonize and analyze music using all the standard chords in major and minor keys.

*Offered at CCSA*

# INSTRUMENTAL MUSIC

## INDOOR COLOR GUARD

0821  
1 SEMESTER  
0.5 CREDIT  
GRADES 9-12

This course covers technical skills in expressive dance, flag, rifle and saber choreography. Students participate in competitions, culminating in the TIA Championships. Evening and weekend rehearsals are required. This course runs from November through May.

*Offered at CCSA and TMHS*

## INDOOR DRUM LINE

1207  
FULL YEAR  
0.5 CREDIT  
GRADES 9-12

This course covers technical skills in expressive performance on percussion instruments along with the choreography/drill components needed for a complete and cohesive show. Students participate in competitions, culminating in the TIA Championships. Evening and weekend rehearsals are required. This course runs from November through May.

*Offered at CCSA and TMHS*

## JAZZ ENSEMBLE

0820  
FULL YEAR  
1 CREDIT (AIHS)  
0.5 CREDIT (CCSA)  
GRADES 9-12

This is a performing instrumental musical ensemble that deals with jazz and its related form throughout various periods of time. **PREREQUISITE:** Must be a member of the marching band or concert band. If guitar or piano, admission by audition.

*Offered at AIHS and CCSA*

## MARCHING BAND

0815  
1 SEMESTER  
0.5 CREDIT  
GRADES 9-12

Students combine the musical elements of band with physical concepts including spatial relationships, body awareness and expressive movement. This course requires that students attend pre-season events in August and perform at varsity football games and other community events including parades. This course meets after school and includes evening and weekend requirements. **PREREQUISITE:** Two or more years of instrument experience.

*Offered at CCSA and TMHS*

## MARCHING BAND / CONCERT BAND COMBINED

0817  
FULL YEAR  
1 CREDIT  
GRADES 9-12

Students rehearse in the classroom and on the football field throughout the fall, and focus on studying and performing concert band literature after marching band season. Students will perform in two mandatory concerts per year and an optional field trip in the spring. **PREREQUISITE:** Three or more years of experience.

*Offered at AIHS, JDHS and TMHS*

## PERCUSSION ENSEMBLE & TECHNIQUE

1213  
FULL YEAR  
1 CREDIT  
GRADES 9-12

In this course students will expand their knowledge of drums and the entire percussion family. Students will perform percussion ensemble music in a number of styles including classical, jazz, Latin, Afro-Cuban and Brazilian, while improving their individual techniques for marching and concert percussion.

*Offered at AIHS*

# INSTRUMENTAL MUSIC

## PIANO I 0825 FULL YEAR 1 CREDIT GRADES 9-12

This course teaches students the fundamentals of music through piano. Repertoire, scales, chords, sight-reading, harmonization, transposition and basic theory are covered as students develop the technique and knowledge needed to play in the major and minor keys.

*Offered at AIHS, CCSA, JDHS and TMHS*

## PIANO I FOR NON-MAJORS 1218 FULL YEAR 1 CREDIT GRADES 9-12

This course introduces students to the basics of playing the piano and reading music.

*Offered at CCSA*

## PIANO II 0826 FULL YEAR 1 CREDIT GRADES 10-12

This course teaches accompaniment techniques, sight-reading skills and classical repertoire. Scales and arpeggios in two octaves will be emphasized. **PREREQUISITE:** Piano I.

*Offered at AIHS, CCSA, JDHS, TMHS*

## PIANO III 0827 FULL YEAR 1 CREDIT GRADES 11-12

In this course students will perform both as soloists and accompanists for vocal and instrumental classes. Classical repertoire will also be stressed and students will continue to strengthen their sight-reading skills.

**PREREQUISITE:** Piano II.

*Offered at CCSA*

## PIANO IV 0828 FULL YEAR 1 CREDIT GRADE 12

In this course students will continue to perform as soloists and accompanists with a deeper focus on classical repertoire and sight-reading.

**PREREQUISITE:** Piano III.

*Offered at CCSA*

## RED CLAY HIGH SCHOOL STRINGS ORCHESTRA 0822 1 SEMESTER 0.5 CREDIT GRADES 9-12

This course is designed for high school string students who play violin, viola, cello and bass. The group meets one evening per week at Cab Calloway School of the Arts.

*Offered at AIHS, CCSA, JDHS and TMHS*

## SIGHT-SINGING & EAR TRAINING 0797 1 SEMESTER 0.5 CREDIT GRADES 9-12

This course offers an introduction to sight singing and ear training. Students are also trained to recognize aurally and notate the basic elements of music, including intervals, diatonic melodies, simple rhythms, chord qualities, and basic harmonic progressions.

*Offered at CCSA*

## STEEL DRUMS 1206 FULL YEAR 1 CREDIT GRADES 9-12

In this course students learn to play the steel drums and perform at various concerts throughout the year. Students also explore the history, culture and performance practices associated with the steel drum.

*Offered at CCSA*

# INSTRUMENTAL MUSIC

## STRINGS MAJOR I

1312  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This course introduces students to musicianship, music theory, composition, improvisation, music history, ear training and technique on strings instruments. Repertoire includes orchestra music, individual solos and chamber music. **RECOMMENDED:** Concurrent enrollment in Red Clay High School Strings Orchestra.

*Offered at CCSA*

## STRINGS MAJOR II

1313  
FULL YEAR  
1 CREDIT  
GRADES 10-12

Students will continue their study of musicianship, music theory, composition, improvisation, music history and ear training while improving their strings technique. **PREREQUISITE:** Strings Major I. **RECOMMENDED:** Concurrent enrollment in Red Clay High School Strings Orchestra.

*Offered at CCSA*

## STRINGS MAJOR III

1314  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course students will refine their strings technique with a repertoire featuring orchestra music, chamber music and individual solos. **PREREQUISITE:** Strings Major II. **RECOMMENDED:** Concurrent enrollment in Red Clay High School Strings Orchestra.

*Offered at CCSA*

## STRINGS MAJOR IV

1315  
FULL YEAR  
1 CREDIT  
GRADE 12

Students will continue to hone their strings technique with a repertoire featuring orchestra music, chamber music and individual solos. **PREREQUISITE:** Strings Major III. **RECOMMENDED:** Concurrent enrollment in Red Clay High School Strings Orchestra.

*Offered at CCSA*

## SYMPHONIC BAND

0817  
FULL YEAR  
1 CREDIT  
GRADES 9-12

The band performs at the medium-easy to medium level of difficulty, with an emphasis on basic instrumental technique and ensemble performance. Members perform at two major concerts per year and are expected to participate in the annual spring trip. **PREREQUISITE:** Audition.

*Offered at CCSA and CSS*

## WIND ENSEMBLE

0995  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This ensemble plays music of medium to advanced difficulty. Students will learn advanced instrumental techniques and ensemble performance.

*Offered at CCSA*

# JOBS FOR DELAWARE GRADUATES

## JOBS FOR DELAWARE GRADUATES GRADE 9

0661 / CIP: 97.010011

FULL YEAR

1 CREDIT

GRADE 9

This course covers study skills, personal grooming, goal planning, decision making, choosing a career path, maintaining a positive attitude, coping with change, values clarification, image assessment, enhancing necessary workplace success skills, group dynamics, conflict resolution and life skills math.

**PREREQUISITE:** Approval by teacher or JDG Specialist.

*Offered at AIHS, JDHS and TMHS*

## JOBS FOR DELAWARE GRADUATES GRADE 10

0662 / CIP: 97.010012

FULL YEAR

1 CREDIT

GRADE 10

This course covers problem solving, teamwork, goal setting, money management, workplace math, courtesy and respect, customer service, workplace diversity, career interests, entrepreneurship, leadership and understanding insurances.

**PREREQUISITE:** Jobs for Delaware Graduates Grade 9.

*Offered at AIHS, JDHS and TMHS*

## JOBS FOR DELAWARE GRADUATES GRADE 11

0663 / CIP: 97.010013

FULL YEAR

1 CREDIT

GRADE 11

This course covers career vocabulary, resume writing, sources of jobs, telephone skills, listening skills, stress management, personal budgeting, occupational preferences, career manual, verbal presentations, critical thinking, constructive criticism, and professional ethics. **PREREQUISITE:** Jobs for Delaware Graduates Grade 10.

*Offered at AIHS, JDHS and TMHS*

## JOBS FOR DELAWARE GRADUATES GRADE 12

0664 / CIP: 97.010014

FULL YEAR

1 CREDIT

GRADE 12

This course covers time management, cover letters, choosing career attire, employment interview, job survival, performance evaluations, business etiquette, employee rights, pay and benefits, financial planning, career travel, writing a letter of resignation, and career portfolio. Each senior will develop a Career Portfolio that includes a resume, references, a sample job application and commendations.

**PREREQUISITE:** Jobs for Delaware Graduates Grade 11.

*Offered at AIHS, JDHS and TMHS*



# MATHEMATICS

## ALGEBRA 1

0311-H (AIHS, CCSA, JDHS & TMHS) /  
0312-CP / 0314 / 0317 / 0352  
FULL YEAR  
1 CREDIT  
GRADE 9

This course provides the basic algebraic skill set to prepare students for advanced mathematics courses. Students will be introduced to the concept of functions and will extend their experience with linear and exponential relationships while learning methods for analyzing and solving linear, exponential and quadratic functions.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## GEOMETRY

0321-H\* / 0322-CP / 0323 / 0325 /  
0353  
FULL YEAR (\*1 SEMESTER AT JDHS)  
1 CREDIT  
GRADES 9-10

In this course students will explore more complex geometric situations while moving toward the more formal mathematical arguments known as proofs. This course examines two- and three-dimensional geometric shapes, and their properties, measurements and mutual relationships in space.

**PREREQUISITE:** Algebra 1.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## ALGEBRA 2

0331-H / 0332-CP / 0354 /0335  
FULL YEAR  
1 CREDIT  
GRADES 9-12

Building on the foundation of linear, quadratic and exponential functions, this course focuses on polynomial, rational and radical functions with an introduction to trigonometric functions. Students work closely with the expressions that define functions, and continue to expand their ability to model situations and solve equations.  
**PREREQUISITE:** Geometry.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## ALGEBRA INTEGRATED WITH STATISTICS IV

0330-H / 0310-CP  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course blends the strands of algebra and functions, geometry, trigonometry, statistics and probability and discrete math to promote an in-depth understanding of mathematical concepts and principles. Units covered are Circular Functions, Vector Components, Complex Numbers, Families of Functions, the Binomial Distribution, the Central Limit Theorem, Rates of Growth, the Fundamental Theorem of Calculus, and Transformational Geometry.  
**PREREQUISITE:** Algebra Integrated with Statistics III.

*Offered at JDHS*

## PRE-CALCULUS

0341-H / 0342-CP  
FULL YEAR  
1 CREDIT  
GRADES 10-12

Building on Algebra 2, this course develops a deeper understanding of functions and their properties. Students will investigate polynomial, exponential, logarithmic, rational, radical and trigonometric functions. Students will also be introduced to vectors, sequences and series.  
**PREREQUISITE:** Algebra 2 or Algebra Integrated with Statistics III.

*Offered at AIHS, CCSA, CSS and TMHS*

## CALCULUS

0381-H  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course introduces the elements of calculus and analytical geometry in differential calculus, as applied to polynomial and rational functions. Students will investigate related rates, relative extrema, limits and integration.  
**PREREQUISITE:** Pre-Calculus.

*Offered at AIHS, CCSA, CSS and JDHS*

# MATHEMATICS

## ALGEBRA / TRIGONOMETRY

0362-CP  
FULL YEAR  
1 CREDIT  
GRADES 10-12 (CCSA AND CSS)  
GRADE 12 (AIHS)

This course focuses on four major topics: algebraic operations including linear, quadratic, polynomial, rational, exponential and logarithmic functions and their graphs; exploration of arithmetic and geometric sequences and series; development of trigonometry from the theory of the unit circle; and statistics.

**PREREQUISITE:** Algebra 2 or Algebra Integrated with Statistics III.

*Offered at AIHS, CCSA and CSS*

## STATISTICS

0371-H (AIHS, CCSA & TMHS ONLY)  
0372-CP / 0374-CP  
FULL YEAR  
1 CREDIT  
GRADE 12

In this course students work with probability, data collection, descriptive and inferential statistics, probability, and technological tools to analyze statistics. Topics include exploring data, planning a study, producing models using probability theory, and making statistical inferences.

Multiple representations to display data including written descriptions, numerical statistics, formulas, and graphs will be used to model data sets.

**PREREQUISITE:** Algebra 2 or Algebra Integrated with Statistics III.

*Offered at AIHS, CCSA, JDHS and TMHS*

## SENIOR MATH

0345  
FULL YEAR  
1 CREDIT  
GRADE 12

This course focuses on algebra, geometry, probability and statistics, financial literacy, and fundamentals of matrices. Students model real-world problems using exponential, quadratic, piecewise and step functions.

**PREREQUISITE:** Algebra 2 or Algebra Integrated with Statistics III.

*Offered at AIHS, JDHS and TMHS*

## AP CALCULUS AB

0380 / 0383  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course is designed to prepare students for the AP Calculus AB Exam. With a focus on differential and integral calculus, this course covers concepts and skills of limits, derivatives, definite integrals and the Fundamental Theorem of Calculus. Students learn to approach calculus concepts and problems when they are represented graphically, numerically, analytically and verbally, and to make connections amongst these representations. **PREREQUISITE:** Pre-Calculus.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## AP CALCULUS BC

0390 / 0392  
FULL YEAR  
1 CREDIT  
GRADE 12

This course is designed to prepare students for the AP Calculus BC Exam. This course extends the content learned in AP Calculus AB to different types of equations (polar, parametric, vector-valued) and new topics (such as Euler's method, integration by parts, partial fraction decomposition and improper integrals). Students will also be introduced to the topic of sequences and series in this course.

**PREREQUISITE:** AP Calculus AB.

*Offered at AIHS, CCSA and CSS*

# MATHEMATICS

## AP STATISTICS

0370 / 0373

FULL YEAR

1 CREDIT

GRADES 11-12

This course is designed to prepare students for the AP Statistics Exam. The course introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. With a focus on the themes of exploring data, sampling and experimentation, anticipating patterns, and statistical inference, students use technology, investigations, problem solving and writing to build conceptual understanding. **PREREQUISITE:** Algebra 2 or Algebra Integrated with Statistics III.

*Offered at AIHS, CCSA, CSS and TMHS*

## IB MATHEMATICAL STUDIES

SL 11

2352

FULL YEAR

1 CREDIT

GRADE 11

This introduces students to important mathematical concepts through the development of mathematical techniques and understanding. This course focuses on solving real-world problems and situations, with topics including algebra, functions and equations, trigonometry, matrices, vectors, statistics and probability, and introductory calculus.

*Offered at JDHS*

## DUAL ENROLLMENT

### MAT 153: COLLEGE MATH & STATISTICS

DELAWARE TECH

0340

FULL YEAR

1 CREDIT

GRADE 12

This course builds the relationship between mathematics and real-world applications, particularly in business and health sciences. Students graph and interpret functions to solve applications involving linear, quadratic, exponential, and logarithmic functions as well as systems of linear equations and inequalities. Applications in elementary statistics, organizing and presenting data, measures of central tendency and variation, and normal and sampling distributions are included.

**PREREQUISITE:** Algebra 2 or Algebra Integrated with Statistics III.

*Offered at CSS and JDHS*

# SCIENCE

## BIOLOGY

### BIOLOGY

0421-H / 0422-CP / 0425 / 0426 / 0453

FULL YEAR  
1 CREDIT  
GRADES 9-12

In this course students assume the role of scientist to learn the basics of biology. Topics include evolution, cell biology, genetics and ecology.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

### AP BIOLOGY

0420  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course is designed to prepare students for the AP Biology Exam. Students cultivate their understanding of biology through inquiry-based investigations as they explore the topics of evolution, cellular processes (energy and communication), genetics, information transfer, ecology and interactions. Students also learn to write and test hypotheses and research journal articles. **PREREQUISITE:** Biology.

*Offered at AIHS, CCSA, CSS and TMHS*

## IB BIOLOGY HL 11

2421  
FULL YEAR  
1 CREDIT  
GRADE 11

This is a two-year course beginning in the student's junior year. This course provides students with higher-order investigative experiences and activities to promote a deeper understanding of critical concepts in biology. Topics include basic biochemistry, cell structure and function, genetic patterns of inheritance, plant form and function, evolution, ecology, animal physiology and the international nature of science. This course includes an internal assessment project that requires students to conduct an investigation in the field of biology research, a Group 4 (DP Science) collaborative project and an externally assessed IB exam at the end of the course.

*Offered at JDHS*

## IB BIOLOGY HL 12

2422  
FULL YEAR  
1 CREDIT  
GRADE 12

This is the conclusion of the two-year IB Biology HL course. **PREREQUISITE:** IB Biology HL 11.

*Offered at JDHS*

## CHEMISTRY

### CHEMISTRY

0431-H / 0432-CP  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course presents chemical theory and calculations, with laboratory experiments and topics such as acids and bases, atomic theory, chemical bonding, chemical reactions, states of matter, and the periodic table.

**PREREQUISITE:** Biology, and Algebra I or Integrated Math I.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

### CHEMISTRY II

0445  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course bridges the gap between Chemistry and AP Chemistry. Through participation in laboratory exercises, students familiarize themselves with laboratory procedures, data collection and analysis, and error interpretation. Students also learn to solve complex math problems, collaborate in the laboratory setting, and share findings verbally and in writing with topics including advanced stoichiometry, gas laws, thermodynamics, kinetics and equilibria. **PREREQUISITE:** Chemistry.

*Offered at CSS*

# SCIENCE

## AP CHEMISTRY

0429 / 0430

FULL YEAR

1 CREDIT

2 CREDITS (CSS ONLY)

GRADES 11-12

This course is designed to prepare students for the AP Chemistry Exam. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics and equilibrium.

**PREREQUISITE:** Chemistry.

*Offered at AIHS, CCSA, CSS and TMHS*

## IB CHEMISTRY SL 11

2432

FULL YEAR

1 CREDIT

GRADE 11

This is a two-year course beginning in the student's junior year. This course provides students with higher-order investigative experiences and activities to promote a deeper understanding of critical concepts in chemistry. It also helps the student to develop the ability to analyze scientific literature and to develop manipulative and experimental skills necessary to perform college level scientific investigations. Topics include stoichiometry, Atomic Theory, chemical bonding, states of matter, carbon chemistry, and the periodic table. This course includes an internal assessment project that requires students to conduct an investigation in the field of chemistry research, a Group 4 (DP Science) collaborative project and an externally assessed IB exam at the end of the course.

*Offered at JDHS*

## IB CHEMISTRY SL 12

2442

FULL YEAR

1 CREDIT

GRADE 12

This is the conclusion of the two-year IB Chemistry SL course. **PREREQUISITE:** IB Chemistry SL 11.

*Offered at JDHS*

## EARTH SCIENCE

### INTEGRATED PHYSICAL / EARTH SCIENCE

0411-H / 0412-CP / 0415 / 0452

FULL YEAR

1 CREDIT

GRADES 9-12

This course explores the fundamentals of chemistry, physics and earth science while introducing students to standard laboratory techniques. Topics include elements and compounds, atomic structure, chemical reactions, forces, motion, mechanics and energy.

*Offered at CCSA, JDHS and TMHS*

### EARTH SCIENCE / ASTRONOMY

0437 / 0459-H (AIHS ONLY)

GRADES 10-12

FULL YEAR

1 CREDIT

In this course students investigate human interactions among Earth's four major spheres to explain the planet's processes, history and changes over time. Topics include mapping Earth's surface, geology, meteorology, climate change and astronomy.

*Offered at AIHS, JDHS and TMHS*

# SCIENCE

## EARTH SCIENCE / ASTRONOMY 0437 GRADES 10-12 1 SEMESTER 0.5 CREDIT

In this course students investigate human interactions among Earth's four major spheres to explain the planet's processes, history and changes over time. Topics include mapping Earth's surface, geology, meteorology, climate change and astronomy.

*Offered at CSS*

## ENVIRONMENTAL SCIENCE

### ENVIRONMENTAL SCIENCE 0439-CP / 0449-H (AIHS ONLY) / 0475 FULL YEAR 1 CREDIT GRADES 11-12

This course examines the relationships between humans and their environment. With a focus on the diversity of life and major interactions in ecosystems around the world, students investigate major types of human interventions and their impact on the environment, natural resources, alternative energy sources and current events.

*Offered at AIHS, CSS and JDHS*

## AP ENVIRONMENTAL SCIENCE 0441 / 0454 FULL YEAR 1 CREDIT GRADES 11-12

This course is designed to prepare students for the AP Environmental Science Exam. Students engage with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world. Embracing topics from geology, biology, environmental studies, environmental science, chemistry and geography, this interdisciplinary course challenges students to identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems and examine alternative solutions for resolving or preventing them. **PREREQUISITE:** Biology.

*Offered at AIHS, CCSA, CSS and TMHS*

## PHYSICS

### PHYSICS 0443-H / 0444-CP FULL YEAR 1 CREDIT GRADES 10-12

This laboratory-based course introduces the central concepts of physics. Topics include the conservation laws of mass, energy, electricity, magnetism and heat. **PREREQUISITE:** Biology.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## AP PHYSICS 1 0442 / 0461 FULL YEAR 1 CREDIT GRADES 11-12

This course is designed to prepare students for the AP Physics 1 Exam. Students cultivate their understanding of physics through inquiry-based investigations as they explore the topics of kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound.

**PREREQUISITE:** Biology.

*Offered at AIHS, CSS and TMHS*

## AP PHYSICS 2 0464 FULL YEAR 1 CREDIT GRADES 11-12

This course is designed to prepare students for the AP Physics 2 Exam. Students cultivate their understanding of physics through inquiry-based investigations as they explore such topics as fluids; thermodynamics; electrical force, field and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic and nuclear physics. **PREREQUISITE:** AP Physics 1 with a final grade of B or higher.

*Offered at AIHS and CSS*

# SCIENCE

## AP PHYSICS C: ELECTRICITY & MAGNETISM 0450 FULL YEAR 1 CREDIT GRADES 11-12

This course is designed to prepare students for the AP Physics C: Electricity & Magnetism Exam. Topics include electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. **PREREQUISITES:** Biology and Calculus.

*Offered at AIHS and CCSA*

## OTHER

### AQUATIC BIOLOGY 0490 FULL YEAR 1 CREDIT GRADES 10-12

This course examines the principles of ecology as applied to marine and freshwater environments. Students learn about the world's marine and freshwater environments and the organisms that inhabit them, with an extended focus on organisms in the local coastal area. Topics include salinity, aquatic plants, invertebrates, aquatic vertebrates (e.g., fish, reptiles, birds and mammals), tides and depths of sea.

*Offered at CSS*

### THE BUSINESS OF SCIENCE 0616 FULL YEAR 1 CREDIT GRADES 10-12

This course examines the relationship between science and the business world. Students explore real-world business issues and scenarios in the biotechnology and allied health industries through simulations, role-play, and expert guest speakers. Major concepts include accounting (GAAP), marketing and advertising, management, leadership and ethics.

*Offered at CSS*

### FORENSIC SCIENCE WITH APPLIED TECHNOLOGY 0476 FULL YEAR 1 CREDIT GRADES 11-12

This course provides an overview of the basic science concepts and techniques used in a forensic science laboratory. Students use technology to explore, evaluate and design methods of data collection and analysis for scientific experiments and procedures. Topics include hair, fiber and paint analysis, forensic toxicology and serology, blood spatter, arson and explosives, fingerprinting and forensic DNA analysis techniques. **RECOMMENDED:** Biology, Chemistry, and Algebra 2 or Integrated Math II.

*Offered at AIHS and TMHS*

### HUMAN ANATOMY & PHYSIOLOGY 0448-H / 1211-CP (CCSA) FULL YEAR 1 CREDIT GRADES 10-12

This course offers an introduction to human anatomy, physiology and related medical terminology. With an emphasis on practical applications in health fields, topics include body organization, body systems (e.g., skeletal, muscular, cardiovascular, respiratory, digestive, reproductive, and nervous), and stability and change in body systems. **PREREQUISITE:** Biology.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

### LEGAL & ETHICAL ISSUES IN SCIENCE 0474 FULL YEAR 1 CREDIT

With groundbreaking scientific breakthroughs occurring on a seemingly daily basis, the ethical and legal ramifications of such discoveries are often overlooked. This course investigates current scientific topics and offers students the tools and resources needed to make sound ethical and legal decisions in the unprecedented era of the post-genetic revolution.

*Offered at CSS*

*(Note: This course may be taught as a distance learning course.)*

# SCIENCE

**DUAL ENROLLMENT**  
**BIO 100: MEDICAL**  
**TERMINOLOGY**  
DELAWARE TECH  
0400 / 0401  
FULL YEAR  
1 CREDIT  
GRADE 11-12

In this course students explore the language of medicine by studying Greek and Latin prefixes, suffixes, roots, and abbreviations; using a body systems approach to define, interpret, and pronounce medical terms; and learning definitions of medical specialties, surgical terms and diagnostic procedures.

*Offered at CSS*

**DUAL ENROLLMENT**  
**BIO 120: ANATOMY &**  
**PHYSIOLOGY**  
DELAWARE TECH  
0447  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course, the first of a two-semester sequence, studies human anatomy and physiology. Topics include the structure and function of cells, tissues, integumentary, skeletal, muscular, nervous, and endocrine systems. Coordinated laboratory experiments are an integral part of this course, which is designed for students who are considering majoring in biology or the allied health field.

*Offered at CCSA, CSS and TMHS*

**DUAL ENROLLMENT**  
**BISC 105: HUMAN**  
**HEREDITY &**  
**DEVELOPMENT**  
UNIVERSITY OF DELAWARE  
0428  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course covers heredity and human affairs, heredity and environment, heredity and diseases, pedigree analysis, the physical and chemical basis of heredity, radiation and mutation, and birth defects.

*Offered at CCSA and CSS*



# SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

*This section includes courses in the Automotive Technology Pathway, Computer Science Pathway and Engineering of Robotics Pathway.*

## AUTOMOTIVE TECHNOLOGY

### FOUNDATIONS OF AUTOMOTIVE TECHNOLOGY

TBD / CIP 6.04610011

FULL YEAR

1 CREDIT

GRADES 9-10

This course introduces students to the skills needed in the occupational area of automotive maintenance and repair. This course offers hands-on opportunities in shop safety, tools and equipment operation, work habits/ethics, communication skills, preparing the vehicle for service, preparing the vehicle for the customer, general service tasks, engine systems and lubrication and cooling systems diagnosis and repair.

*Offered at TMHS*

### AUTOMOTIVE TECHNOLOGY I

0917 / CIP: 16.04307011

FULL YEAR

1 CREDIT

GRADES 9-10

This course teaches shop safety and vehicle maintenance. Students research careers in the automotive industry and learn how to become a certified technician. Students also learn common tools and equipment in automotive technology while exploring the systems of the automobile.

*Offered at JDHS*

### AUTOMOTIVE TECHNOLOGY II

0918 / CIP: 16.04307022

FULL YEAR

1 CREDIT

GRADES 10-11

In this course students explore automotive steering, suspension systems and the braking system of an automobile. Students learn to identify, inspect, diagnosis and repair the various components associated with each system. Students also learn the fundamentals of vehicle wheel alignment. **PREREQUISITE:** Automotive Technology I.

*Offered at JDHS and TMHS*

### AUTOMOTIVE TECHNOLOGY III

0919 / CIP: 16.04307033

FULL YEAR

2 CREDITS

GRADES 11-12

This course continues the study of hands-on repairs and tasks in automotive technology, with topics including engines, engine performance and repairs and automotive electricity. Students learn how to properly diagnosis and make minor repairs to the vehicle's engine, electrical systems and computer system. Students have the opportunity to compete at a state-level Skills USA Competition.

**PREREQUISITE:** Automotive Technology II.

*Offered at JDHS and TMHS*

### AUTOMOTIVE TECHNOLOGY CO-OP

0950

FULL YEAR

1 CREDIT

GRADE 12

In this course students are expected to obtain paid employment in the automotive technology field. Students must provide their own transportation.

**PREREQUISITE:** Automotive Technology III.

*Offered at TMHS*

# SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

## COMPUTER SCIENCE

### EXPLORING COMPUTER SCIENCE PRINCIPLES

0358 / CIP: 11.04601011  
FULL YEAR  
1 CREDIT  
GRADES 9-10

This course focuses on computer architecture, functionality and the social implications that computers have for human civilization. Topics include programming, data, algorithms, abstraction and internet.

*Offered at CSS and JDHS*

### AP COMPUTER SCIENCE PRINCIPLES

1052 / CIP: 11.04601022  
FULL YEAR  
1 CREDIT  
GRADES 10-11

This course is designed to prepare students for the AP Computer Science Principles Exam. Students explore the fundamentals of computing, including problem solving, working with data, understanding the internet, cybersecurity and programming. This course also covers abstraction and algorithms.

*Offered at AIHS, CSS and JDHS*

### AP COMPUTER SCIENCE A

1053 / CIP: 11.04601033  
FULL YEAR  
1 CREDIT  
GRADE 12

This course is designed to prepare students for the AP Computer Science A Exam. With a focus on the fundamentals of programming and problem solving using the JAVA language, this course covers design strategies, organization of data, approaches to processing data, analysis of potential solutions and the ethical and social implications of computing.

*Offered at AIHS and CSS*

## ENGINEERING OF ROBOTICS

### ENGINEERING OF ROBOTICS I

0974 / CIP: 15.01301011  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This course introduces robots to the high school classroom. Using LEGO Mindstorms NXT Robots, students learn how to program basic robot behaviors using motors and rotation, sound, light, touch and ultrasonic sensors. Students explore the processes of design and engineering, concepts of mechanics, applied mathematics and computer programming, with a focus on problem solving skills, team building and effective communication.

*Offered at JDHS*

### ENGINEERING OF ROBOTICS II

0975 / CIP: 15.01301022  
FULL YEAR  
1 CREDIT  
GRADES 10-12

In this course students build simple to complex robots that perform specific tasks or evade objects. With an emphasis on solving real-world problems by learning the function of basic electronic components and mechanisms, students study advanced programming with ROBOTC language. Many students in this course should have a vested interest in competing in local and regional competitions for FIRST and VEX robotics competition.

**PREREQUISITE:** Engineering of Robotics I.

*Offered at JDHS*

# SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

**ENGINEERING OF  
ROBOTICS III**  
0976 / CIP: 15.01301033  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course continues the study of the processes of design and engineering, automation, electronics, mechanics, pneumatics, drive train and computer programming. Students use logic to program a series of commands and C-based programming for a robot to perform, while gaining real-world engineering experience by designing, fabricating and assembling robots and evaluating robotics processes through participation in the FIRST Robotics Competition. Students also learn about hardware and software used by the drivers in FIRST Robotics Competitions.

**PREREQUISITE:** Engineering of Robotics II.

*Offered at JDHS*

**ENGINEERING & ROBOTICS  
0740**  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course covers robotic design, electrical wiring, programming and engineering metrics. Students explore the design process and documentation from the initial brainstorm and proof-of-concept design, to the building of prototypes, troubleshooting and the final product. Students are assessed through a combination of robot design challenges and quizzes.

*Offered at CSS*

# SOCIAL STUDIES

## ECONOMICS

### CIVICS / ECONOMICS

0231-H / 0232-CP / 0240 / 0243 / 0255

FULL YEAR  
1 CREDIT  
GRADE 9

This course offers an introduction to political science, citizenship, government and economics. Students examine societal issues and explore solutions.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

### ECONOMICS & FINANCE

0268  
1 SEMESTER  
0.5 CREDIT  
GRADE 12

This course examines how individual choices are influenced by the economy as a whole. Using economic data and case studies, students explore topics related to education, career goals, financial planning, investing, housing, transportation, healthcare and retirement.

*Offered at CSS and JDHS*

### AP MACROECONOMICS

0295  
1 SEMESTER  
0.5 CREDIT  
GRADE 12

This course is designed to prepare students for the AP Macroeconomics Exam. With a focus on the principles that apply to an economic system as a whole, this course places particular emphasis on the study of national income and price-level determination. Students will develop familiarity with economic performance measures, the financial sector, stabilization policies, economic growth and international economics, while also learning to use graphs, charts and data to analyze, describe and explain economic concepts. **CO-REQUISITE:** AP Microeconomics.

*Offered at AIHS and CCSA*

### AP MICROECONOMICS

0296  
1 SEMESTER  
0.5 CREDIT  
GRADE 12

This course is designed to prepare students for the AP Microeconomics Exam. With a focus on the principles of economics that apply to the functions of individual economic decision-makers, this course develops students' familiarity with the operation of product and factor markets, distributions of income, market failure and the role of government in promoting greater efficiency and equity in the economy. Students will learn to use graphs, charts and data to analyze, describe and explain economic concepts. **CO-REQUISITE:** AP Macroeconomics.

*Offered at AIHS and CCSA*

**DUAL ENROLLMENT  
ECON 100: ECONOMIC  
ISSUES & POLICIES  
UNIVERSITY OF DELAWARE  
0226  
FULL YEAR  
1 CREDIT  
GRADE 12**

This course takes a nontechnical approach to basic economics. Students apply economic concepts to contemporary issues, problems and policies. Both macroeconomic and microeconomic topics are covered.

*Offered at CSS*

# SOCIAL STUDIES

## GEOGRAPHY

### GEOGRAPHY

0201  
1 SEMESTER  
0.5 CREDIT  
GRADE 12

This course takes a close look at the earth we inhabit with students exploring where events such as people, places and things occur, how they got there and how they are related to other events on the planet. Students learn how we have organized our land and life across the earth's surface and what that organization means for our future.

*Offered at AIHS and TMHS*

### AP HUMAN GEOGRAPHY

0210  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This course is designed to prepare students for the AP Human Geography Exam. Offering an introduction to the systematic study of patterns and processes that have shaped human understanding, use and alteration of Earth's surface, this course challenges students to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. Students will also learn methods and tools used by geographers.

*Offered at AIHS, CCSA, CSS and TMHS  
(Note: This course may be taught as a distance learning course.)*

## GOVERNMENT & POLITICS

### AP COMPARATIVE GOVERNMENT & POLITICS

0292  
FULL YEAR  
1 CREDIT  
GRADE 12

This course is designed to prepare students for the AP Comparative Government and Politics Exam. Offering an introduction to the rich diversity of political life outside the United States, this course uses a comparative approach to examine the political structures, policies, and the political, economic, and social challenges among Great Britain, Mexico, Russia, Iran, China, and Nigeria. Students examine how different governments solve similar problems by comparing the effectiveness of approaches to many global issues.

*Offered at CSS*

### AP U.S. GOVERNMENT & POLITICS

0200  
FULL YEAR  
1 CREDIT  
GRADES 11- 12

This course provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project.

*Offered at AIHS, CCSA and CSS*

# SOCIAL STUDIES

## CONTEMPORARY POLITICAL ISSUES

0263  
1 SEMESTER / FULL YEAR  
0.5/ 1 CREDIT  
GRADE 12

This course takes a look at political issues from the 1960s through present day. Students examine historical, political, social and economic events that have influenced the United States and the global community, with topics including the Vietnam War, conflicts in the Middle East, Reaganomics, the Clinton Years, and September 11 and its aftermath.

*Offered at AIHS, CSS, JDHS and TMHS*

## HISTORY

### U.S. HISTORY

0211-H / 0212-CP / 0213 / 0215 /  
0252  
FULL YEAR  
1 CREDIT  
GRADE 11

This course explores social science through an analysis of United States history and institutions from the Civil War era through present day. Students will develop an understanding of modern history including Civil War and Reconstruction (1850-1877); development of an industrialized nation (1870-1900); emergence of modern America (1890-1930); Great Depression and World War II (1929-1945); Postwar United States (1945-early 1970s); and contemporary United States (1968-present).

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

### AP U.S. HISTORY

0260  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course is designed to prepare students for the AP U.S. History Exam. Students investigate significant events, individuals, development, and processes in nine historical periods from approximately 1491 to the present. Using the same skills, practices and methods employed by historians, students will analyze primary and secondary sources; develop historical arguments; make historical comparisons; and utilize reasoning about contextualization, causation, and continuity and change over time. Students will explore seven themes in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange and technology; America in the world; geography and the environment; and culture and society.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

# SOCIAL STUDIES

## WORLD HISTORY

0221-H / 0222-CP / 0223 / 0225 / 0251

FULL YEAR  
1 CREDIT  
GRADE 10

This course presents a chronological history from the Renaissance to present day. Students examine the Renaissance in Europe, Africa, the Americas and the Far East, along with the Ages of Revolution, Industrialism and Imperialism. This course also covers World War I and II and today's world in Africa, the Middle East, Asia, Latin America, Europe and the United States.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## WORLD HISTORY ON FILM

0278

1 SEMESTER  
0.5 CREDIT  
GRADE 11-12

This course challenges students to consider the question, "What is history?" Examining films and historical dramas as historical evidence, students learn to rethink major problems in world history and understand the main task of the historian as not to record facts, but to interpret and evaluate them. **CO-REQUISITE:** Introduction to Art History.

*Offered at TMHS*

## AP WORLD HISTORY : MODERN

0220

FULL YEAR  
1 CREDIT  
GRADES 10-12

This course is designed to prepare students for the AP World History: Modern Exam. Students investigate significant events, individuals, developments and processes in six historical periods from approximately 1200 CE to the present. Using the same skills, practices and methods employed by historians, students will analyze primary and secondary sources; develop historical arguments; make historical comparisons; and utilize reasoning about contextualization, causation, and continuity and change over time. Students will explore five themes in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion and interaction of economic systems; and development and transformation of social structures.

*Offered at CSS, JDHS and TMHS*

## INTRODUCTION TO ART HISTORY

0269

FULL YEAR  
1 CREDIT  
GRADES 10-12

This course offers a survey of world art from Antiquity to the present. With a focus on the media of painting, sculpture and architecture of various cultures, this course features highlights from art movements of Europe, Africa, the Middle East, Asia and the Americas.

*Offered at AIHS and CCSA*

## INTRODUCTION TO ART HISTORY

0269

1 SEMESTER  
0.5 CREDIT  
GRADES 11-12

This course offers a survey of world art from Antiquity to the present. With a focus on the media of painting, sculpture and architecture of various cultures, this course features highlights from art movements of Europe, Africa, the Middle East, Asia and the Americas. **CO-REQUISITE:** World History on Film.

*Offered at TMHS*

# SOCIAL STUDIES

## AP ART HISTORY

0250  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course is designed to prepare students for AP Art History Exam. Students will explore the nature of art, art making and responses to art. By investigating specific course content of 250 works of art characterized by diverse artistic traditions from prehistory to the present, this course fosters in-depth, holistic understanding of the history of art from a global perspective. Students learn how to become active participants in the global art world, engaging with its forms and content. Students will also experience, research, discuss, read and write about art, artists, art making, responses to, and interpretations of art.

*Offered at AIHS, CCSA and TMHS*

## AP EUROPEAN HISTORY

0270  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course is designed to prepare students for the AP European History Exam. In this course students investigate significant events, individuals, developments and processes in four historical periods from approximately 1450 to the present. Using the same skills, practices and methods employed by historians, students will analyze primary and secondary sources; develop historical arguments; make historical comparisons; and utilize reasoning about contextualization, causation, and continuity and change over time. Students will explore six themes in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity.

*Offered at AIHS, CCSA and TMHS*

## AFRICAN AMERICAN HISTORY

0207  
1 SEMESTER  
0.5 CREDIT  
GRADE 12

This course provides a survey of African American history from the beginnings in Africa to present day in America. With a look at the role of technological innovations and social ideas in history, topics include the Atlantic slave trade, creating a new nation, the Civil War, Reconstruction, separation of the races, the Great Depression, the Civil Rights movement and modern America. Contemporary social issues such as equal rights, racism, sexism, terrorism, politics and world cultures are explored with an analysis of the development of American culture.

*Offered at AIHS, JDHS and TMHS*



# SOCIAL STUDIES

## IB HISTORY THE AMERICAS

(HL) 11

2232

FULL YEAR

1 CREDIT

GRADE 11

This is a two-year course beginning in the student's junior year. In this course, students will study Anglo-America and Latin America for the purpose of comparing and contrasting the similarities and differences in cultural roots; political, economic and social development; and modern international relations. Students will also examine critical issues in United States history and prepare for the IB examination.

*Offered at JDHS*

## IB HISTORY THE AMERICAS

(HL) 12

2242

FULL YEAR

1 CREDIT

GRADE 12

This course concludes the two-year IB History of the Americas course. Students will focus on topics of the 20th century with a close examination of the Cold War. Students will take the IB examination in this course.

**PREREQUISITE:** IB History of the Americas HL 11.

*Offered at JDHS*

## PSYCHOLOGY

### PSYCHOLOGY

0264 / 0282-H (AIHS & CCSA)

FULL YEAR

1 CREDIT

GRADE 12

This course offers an introduction to the five domains of psychology: Methods, Biopsychosocial, Developmental, Cognitive and Variations of Individual and Group Behaviors. Topics include psychological research, careers in psychology, Biological bases of behavior, stress, life span development, relationships and states of consciousness.

*Offered at AIHS, CCSA, CSS and TMHS*

### PSYCHOLOGY

0264

1 SEMESTER

0.5 CREDIT

GRADE 12

This course offers an introduction to the five domains of psychology: Methods, Biopsychosocial, Developmental, Cognitive and Variations of Individual and Group Behaviors. Topics include psychological research, careers in psychology, Biological bases of behavior, stress, life span development, relationships and states of consciousness.

*Offered at JDHS*

## AP PSYCHOLOGY

0280

FULL YEAR

1 CREDIT

GRADE 12

This course is designed to prepare students for the AP Psychology Exam.

This course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence and effectively communicate ideas.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS  
(Note: This course may be taught as a distance learning course.)*

# SOCIAL STUDIES

## IB PSYCHOLOGY

(HL) 11

2245

FULL YEAR

1 CREDIT

GRADE 11

The IB Diploma Program High Level (HL) Psychology course is the systematic study of behavior and mental processes. Students undertaking the course can expect to develop an understanding of how psychological knowledge is generated, developed and applied. This will allow them to have a greater understanding of themselves and appreciate the diversity of human behavior. The holistic approach reflected in the curriculum, which sees biological, cognitive and sociocultural analysis being taught in an integrated way ensures that students are able to develop an understanding of what all humans share, as well as the immense diversity of influences on human behavior and mental processes. In addition to the three levels of analysis, the IB curriculum requires an in-depth study of two other areas psychology. We will study the Human Development and Abnormal Psychology options, weaving in the three levels of analysis as we examine the two topics.

In year one/11th grade, students undertake rigorous study of the following topics: the biological level of analysis, the cognitive level of analysis, The sociocultural level of analysis, abnormal psychology, developmental psychology and the psychology of human relationships.

*Offered at JDHS*

## IB PSYCHOLOGY

(HL) 12

TBD

FULL YEAR

1 CREDIT

GRADE 12

The IB Diploma Program High Level (HL) Psychology course is the systematic study of behavior and mental processes. Students undertaking the course can expect to develop an understanding of how psychological knowledge is generated, developed and applied. This will allow them to have a greater understanding of themselves and appreciate the diversity of human behavior. The holistic approach reflected in the curriculum, which sees biological, cognitive and sociocultural analysis being taught in an integrated way ensures that students are able to develop an understanding of what all humans share, as well as the immense diversity of influences on human behavior and mental processes. In addition to the three levels of analysis, the IB curriculum requires an in-depth study of two other areas psychology.

In year two/12th grade the emphasis moves towards being able to create, evaluate and assess research methods in psychology. The topics studied are: Qualitative research in psychology and an Introduction to experimental research methodology. Additionally, over several weeks, students will create their own study which counts at 20% of their grade for the entire course.

*Offered at JDHS*

## DUAL ENROLLMENT

### PSY 121: GENERAL PSYCHOLOGY

DELAWARE TECH

0287

FULL YEAR

1 CREDIT

GRADES 11-12

This course covers general principles underlying human behavior and mental processes. Topics include biological factors that influence behavior, psychological approaches, sensation/perception, learning, motivation/emotion, personality, abnormal psychology, and methods of assessment and research principles.

*Offered at TMHS*

*(Note: This course may be taught as a distance learning course.)*

# SOCIAL STUDIES

## OTHER

**GRADE 12: READING PROJECT**  
0245  
FULL YEAR  
1 CREDIT  
GRADE 12

In this course students explore the surroundings and time in which another person lived. Students compare and contrast the civic and economic impact of past eras with our society today.

*Offered at AIHS and JDHS*

**IB THEORY OF KNOWLEDGE**  
2852  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course stands at the center of the IB program, guiding students to think about everything they are learning in their other classes. Theory of Knowledge asks one deceptively simple question: "How do you know?" The question starts out that general, exploring how we know anything at all. Then it focuses on specific courses such as science, history, or literature. In science the question may be, "How do you know that the scientific method is valid?" In history it may be, "How do you know Montezuma was the last Aztec ruler?" And in literature it may be, "How do you know a good poem from a bad one?" The goal of this course is not to make students doubt everything they hear, but rather help them listen carefully, think clearly and express themselves confidently.

*Offered at JDHS*

**DUAL ENROLLMENT ANTH 101: INTRODUCTION TO CULTURAL & SOCIAL ANTHROPOLOGY**  
UNIVERSITY OF DELAWARE  
0227  
FULL YEAR  
1 CREDIT  
GRADE 12

This course covers major ideas and areas of study in social and cultural anthropology. Ethnographic data and film are used to illustrate the anthropologist's view of societies in their sociocultural and ecological dimensions.

*Offered at CCSA and CSS*

**DUAL ENROLLMENT HDFS 202: DIVERSITY & FAMILIES**  
UNIVERSITY OF DELAWARE  
0729  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course examines diverse families in the United States with a focus on issues of race, ethnicity, social class, and gender. Emphasis is placed on the accelerating effects of globalization and social change.

*Offered at CCSA*

**DUAL ENROLLMENT PHIL 100: PHILOSOPHIES OF LIFE**  
UNIVERSITY OF DELAWARE  
0285  
FULL YEAR  
1 CREDIT  
GRADE 12

This course examines past and present philosophies that people strive to live by, including individualistic, group-oriented, religious and nonreligious positions.

*Offered at CCSA and CSS*

**DUAL ENROLLMENT SOC 111: SOCIOLOGY**  
DELAWARE TECH  
0279  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course provides an analysis of American social organization and culture, through a cross-cultural perspective. Students investigate, describe and analyze patterns of human behavior to understand the human condition.

*Offered at AIHS, CSS and TMHS  
(Note: This course may be taught as a distance learning course.)*

# THEATER

*This section includes courses in the Technical Theater Pathway, Theater Arts Pathway, Theater Program of Study, along with other theater courses.*

**DRAMA I**  
**0808**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

This course introduces the basic elements of acting of theater production. Students explore acting techniques through movement, improvisational games, scene studies and monologues. Students also study writing for the stage.

*Offered at JDHS*

**DRAMA II**  
**0809**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 10-12**

In this course students explore theater history from Ancient Greece to present day, performing scenes from each time period. Students refine acting techniques through improvisational games, movement exercises and monologue. **PREREQUISITE:** Drama I.

*Offered at AIHS and JDHS*

**DRAMA III**  
**0810**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 11-12**

This course focuses on theater of the 20th century. Students examine plays and perform and direct related scenes. Students also explore advanced movement and acting techniques through improvisation, yoga, vocal exercises and scene studies.

**PREREQUISITE:** Drama II.

*Offered at AIHS and JDHS*

**DRAMA IV**  
**0811**  
**FULL YEAR**  
**1 CREDIT**  
**GRADE 12**

This course teaches advanced acting techniques and directing. Designed to prepare students for a career in theater, this course covers audition techniques and advanced memorization skills through scene studies, monologues and writing and performing skits and plays.

**PREREQUISITE:** Drama III.

*Offered at AIHS*

**INTRODUCTION TO ACTING**  
**1220**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

This course teaches the basic elements of acting and theater production, with students exploring acting techniques through monologues, scenes and one-act plays. This course also focuses on improvisation, teamwork, basic character development, theater vocabulary and writing for the stage.

*Offered at AIHS and CCSA*

**ACTING FOR THE CAMERA**  
**TBD**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 10-12**

This course prepares students for the demands and challenges of acting on camera. Students will gain exposure to hands-on experience in the technical aspects of the behind-the-camera process in capturing an actor's on-camera performance. Students will learn and participate in various production crew positions in support of the on-camera work done in the class. Students will be expected to participate in four out-of-class film shoots throughout the school year as either actor or production. **PREREQUISITE:** Introduction to Acting or Teacher Approval

*Offered at CCSA*

# THEATER

## ADVANCED ACTING

1225  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course students continue to build acting skills and explore theater as a career. This course teaches audition techniques and advanced memorization skills through scene studies, monologues, and writing and performing monologues and one-act plays. **PREREQUISITE:** Introduction to Acting and audition.

*Offered at AIHS*

## STAGE COMBAT

0790  
FULL YEAR  
1 CREDIT  
GRADES 9-12

In this course students learn to perform staged violence in a safe and controlled manner while creating believable action on stage. Working in pairs and small groups, students learn the basics of theatrical combat and violence including a history of weaponry and combatants; the design, operation and maintenance of weaponry; theatrical movement and body awareness; and combat fight skills for unarmed combat, knife combat, rapier/dagger combat, broadsword combat, quarterstaff combat and unique/found weapon combat.

*Offered at CCSA*

## ADVANCED STAGE COMBAT

0791  
FULL YEAR  
1 CREDIT  
GRADES 10-12

In this course students continue to develop compulsory techniques in stage combat and hone their unarmed, knife, quarterstaff, rapier and dagger, and broadsword skills. This course builds partnering skills and expands the artist's imagination. **PREREQUISITE:** Stage Combat.

*Offered at CCSA*

## ADVANCED THEATER COMPANY

0795  
FULL YEAR  
1 CREDIT  
GRADES 10-12

In this course students become members of a theater company and write, direct and act in plays for the public. Students perform one-act scripts, abridged Shakespeare plays and self-written work. Classes involve some activity periods. **PREREQUISITE:** Audition.

*Offered at CCSA*

## CHARACTER DEVELOPMENT, IMPROVISATION & CHILDREN'S THEATER

1223  
FULL YEAR  
1 CREDIT  
GRADES 10-12

In this course students will explore different methods of character development and experiment with character roles. Students will study long-form improvisation, commedia dell'arte, spontaneous playing and the art of being in the moment. Students will be introduced to purpose, scope and history of theater experiences for children. **PREREQUISITE:** Introduction to Acting.

*Offered at CCSA every other year*

## VOICE & MOVEMENT FOR THE ACTOR

1204  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course explores voice and movement techniques for the stage. Through yoga practice, partner stretches, trust-building exercises, visualization and mindfulness practices, students learn a variety of movement practices, techniques and forms to enhance their vocal and physical strength and flexibility. Topics include kinesthetic awareness, movement and sound storytelling, diction and articulation, physical self-awareness and flexibility, movement techniques used throughout theater history, and physical improvisational exercises.

*Offered at CCSA*

# THEATER

## THEATER CRAFT

**0787**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 10-12**

This course provides students with a foundation in the “craft” of theater/film production. Topics covered: an introduction to drafting and technical drawing, set/scene design, model making, costume history, design and props, hair design and make-up. **PREREQUISITE** at least one of the following: Dance I, Digital Media I, Drama I, Visual Arts Foundation I, Vocal Music I, or Introduction to Technical Theater.

*Offered at CCSA*

## TECHNICAL THEATER

### INTRODUCTION TO TECHNICAL THEATER

**0814**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

In this course students will learn the basics of set design and construction, lighting design, sound design, costume design, prop design, stage management, and the day-to-day operation and maintenance of a theater.

*Offered at CCSA*

### TECHNICAL THEATER II

**0891**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 10-12**

This course continues the study of technical theater with exploration of costuming, props, make-up, scenic design, stage management, sound design, and basic lighting design.

**PREREQUISITE:** Technical Theater I.

*Offered at CCSA*

### TECHNICAL THEATER III

**0892**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 11-12**

In this course students will be required to read scripts, research settings, create artistic 2D and 3D interpretations and build models that based on their designs, construct sets and props for current productions. Students will also be responsible for maintenance of the theater.

**PREREQUISITE:** Technical Theater II.

*Offered at CCSA*

### TECHNICAL THEATER IV

**0893**  
**FULL YEAR**  
**1 CREDIT**  
**GRADE 12**

Students will deepen their experience with operation and design of computerized theater lighting, amplification of live performances, stage and theatrical management, and counterweight rigging systems. Students must be available after school for show rehearsals, technical meetings and set-building nights.

**PREREQUISITE:** Technical Theater III.

*Offered at CCSA*

# VISUAL & DESIGN ARTS

*This section includes courses in the Graphic Design Pathway, Visual Arts Pathway, Visual Arts Program of Study, along with other arts courses.*

## **VISUAL ARTS FOUNDATION I 0871** FULL YEAR 1 CREDIT GRADES 9-12

This course provides a foundation in visual arts with a wide variety of media and techniques in drawing, painting, sculpture and design. Students explore and apply the elements of art and principles of design while learning how to reflect on their own works and the works of their peers and professional artists.

*Offered at AIHS, CCSA, JDHS and TMHS*

## **VISUAL ARTS FOUNDATION II 0872** FULL YEAR 1 CREDIT GRADES 10-12

In this course students refine their technique and explore a variety of materials and applications as they practice the role of the artist as communicator. This course incorporates hands-on activities with critical and creative thinking, self-expression and visual communication skills. **PREREQUISITE:** Visual Arts Foundation I.

*Offered at AIHS and CCSA*

## **IB VISUAL ARTS HL 11 2831** FULL YEAR 1 CREDIT GRADE 11

This is the first course in the two-year IB Visual Arts course, beginning in the student's junior year. Students build upon life experiences while developing new skills, techniques, and ideas creatively. While creating art is the main focus of this course, reading about art, researching art, and investigating new mediums is a driving force behind students' artwork. HL Visual Arts includes additional requirements for the written Comparative Study, an expanded portfolio of 13-25 pages, and an 8-11 piece requirement for the exhibition.

*Offered at JDHS*

## **IB VISUAL ARTS HL 12 2841** FULL YEAR 1 CREDIT GRADE 12

This is the conclusion of the two-year IB Visual Arts course. Students develop an integrated relationship between studio work and investigation work. HL Visual Arts includes additional requirements for the written Comparative Study, an expanded portfolio of 13-25 pages, and an 8-11 piece requirement for the exhibition. **PREREQUISITE:** IB Visual Arts HL 11.

*Offered at JDHS*

## **IB VISUAL ARTS SL 11 2832** FULL YEAR 1 CREDIT GRADE 11

This is the first course in the two-year IB Visual Arts course, beginning in the student's junior year. Students build upon life experiences while developing new skills, techniques, and ideas creatively. While creating art is the main focus of this course, reading about art, researching art, and investigating new mediums is a driving force behind students' artwork. SL Visual Arts includes a portfolio of 9-12 pages and a 4-7 piece requirement for the exhibition.

*Offered at JDHS*

## **IB VISUAL ARTS SL 12 2842** FULL YEAR 1 CREDIT GRADE 12

This is the conclusion of the two-year IB Visual Arts course. Students develop an integrated relationship between studio work and investigation work. SL Visual Arts includes a portfolio of 9-12 pages and a 4-7 piece requirement for the exhibition. **PREREQUISITE:** IB Visual Arts SL 11.

*Offered at JDHS*

# VISUAL & DESIGN ARTS

## 2D DESIGN

1116  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course challenges students to perfect the concept of the picture plane, figure and ground relationships, scale and proportional transformation, patterning, composition, value, color, methods for conveying time and spatial illusion. **PREREQUISITE:** Visual Arts Foundation I (JDHS and TMHS); Visual Arts Foundation II (CCSA).

*Offered at CCSA, JDHS and TMHS*

## ADVANCED 2D DESIGN

1117  
FULL YEAR  
1 CREDIT  
GRADE 12

In this course students refine their technical skills to create artwork that is sophisticated and personal. Student create initial thematic designs, and then use processes to manipulate, and refine the structural components to improve the organization of the principles of design. Compositions are designed from observation, research, and/or imagination. **PREREQUISITE:** 2D Design.

*Offered at CCSA, JDHS and TMHS*

## 3D DESIGN

1118  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course provides a working knowledge of the basic fundamental principles of 3D design. With an emphasis on the application of the elements of art and principles of design, this studio class helps students to develop an informed understanding of actual and virtual 3D form. Students learn from a progressive study in terminology, visual principles, exploration, concept generation, processes, and techniques. **PREREQUISITE:** Visual Arts Foundation I (JDHS and TMHS); Visual Arts Foundation II (CCSA).

*Offered at AIHS, CCSA, JDHS and TMHS*

## ADVANCED 3D DESIGN

1119  
FULL YEAR  
1 CREDIT  
GRADE 11-12

This course offers an advanced application of technical and aesthetic exploration through a variety of mediums. Students participate in a wide range of experiences that will expand their understanding of the 3D world and enable them to use their art to communicate. **PREREQUISITE:** 3D Design.

*Offered at CCSA, JDHS and TMHS*

## ART STUDIO

0854  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course students develop original and creative self-expression. Students are expected to provide additional materials for studio work. **PREREQUISITE:** Visual Arts Foundation II.

*Offered at AIHS and JDHS*

## AP STUDIO ART

0874  
FULL YEAR  
2 CREDITS (CCSA)  
1 CREDIT (TMHS)  
GRADE 12

This course is designed to prepare students for the AP Studio Art assessment. This course is designed for students who are seriously interested in the practical experience of art. Students create a portfolio of work to demonstrate the artistic skills and ideas they have developed, refined and applied over the course of the year to produce visual compositions. Students may choose to submit any or all of the Drawing, 2-Dimensional Design or 3-Dimensional design portfolios. **PREREQUISITE:** Visual Arts Foundation II and teacher approval.

*Offered at CCSA and TMHS*



# VISUAL & DESIGN ARTS

## DRAWING I & MARK MAKING 0857

FULL YEAR  
1 CREDIT  
GRADES 11-12

This course covers the fundamentals of pictorial design through a sequence of hands-on exercises and projects. Students are challenged to design and execute original creative compositions using a traditional and non-traditional materials, methods and mark making tools. Students also develop their own visual vocabulary and repertoire of practical personal approaches to mediums, techniques and thematic content. **PREREQUISITE:** Visual Arts Foundation II.

*Offered at CCSA*

## DRAWING II & MARK MAKING 0858

FULL YEAR  
1 CREDIT  
GRADE 12

This course emphasizes content issues and the historical and cultural contexts in which works of art are produced. Students translate visual evidence into words, helping them to develop and communicate self-expression and awareness. **PREREQUISITE:** Drawing I & Mark Making.

*Offered at CCSA*

## GRAPHIC DESIGN

### GRAPHIC DESIGN & PRODUCTION I

0884 / CIP: 03.02301011  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This course offers an introduction to graphic design fundamentals, the design industry, production and visual communications.

*Offered at JDHS*

### GRAPHIC DESIGN & PRODUCTION II

0885 / CIP: 03.02301022  
FULL YEAR  
1 CREDIT  
GRADES 10-12

In this course students learn to use industry-standard design programs including SignLab and the Adobe Creative Suite for digital imaging and editing.

*Offered at JDHS*

### GRAPHIC DESIGN & PRODUCTION III

0886 / CIP: 03.02301033  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course students explore desktop publishing, sign making, vinyl graphics, large format printing, logo design and t-shirt printing. Students also take a closer look at the graphic arts industry and the many careers it has to offer.

*Offered at JDHS*

## DUAL ENROLLMENT IL212: FIGURE DRAWING

DCAD  
0789  
FULL YEAR  
1 CREDIT  
GRADES 11-12

The course explores the human figure as the most complex single subject matter in all of the visual arts. It is primarily observational drawing from models, introducing human anatomy, proportions, movement/balance, figure/space relationship, and various expressive approaches. Students will practice a variety of drawing media - wet, dry, and some color.

*Offered at CCSA*

# VOCAL ARTS

*This section includes courses in the Vocal Arts Program of Study, Vocal Music Pathway, along with other vocal arts courses.*

## VOCAL ENSEMBLE

**0844-H**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 11-12**

This ensemble continues to explore a vast repertoire of SATB literature, with a deeper focus on proper tone production, artistic performance and expression. Students will refine their sight-reading and ear-training skills.  
**PREREQUISITE:** Chamber Choir.

*Offered at AIHS*

## ADVANCED VOCAL ENSEMBLE

**0845**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 10-12**

Dickinson Singers is an auditioned mixed ensemble of singers specializing in the performance of advanced choral literature, including madrigals, and vocal chamber music. This advanced performance ensemble will focus on a variety of music throughout the year with an emphasis on complex and diverse music from a variety of genres. Music skills such as sight singing and reading music notation are required and will be built upon. Enrollment in this ensemble requires a signed permission slip from the vocal music teacher. **PREREQUISITE:** Audition.

*Offered JDHS*

## WOMEN'S ENSEMBLE

**0837**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

This course explores a vast repertoire of treble music from different cultures, periods and styles. With an emphasis on proper tone production, artistic performance and expression, students will develop sight-reading and ear-training skills.

*Offered at AIHS and TMHS*

## ADVANCED WOMEN'S ENSEMBLE

**0839**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 10-12**

This ensemble performs a wide array of advanced treble literature which requires strong vocal ability and sight-reading skills. **PREREQUISITE:** Audition.

*Offered at TMHS*

## CHAMBER CHOIR

**0843**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

In this mixed ensemble, students will explore a vast repertoire of SATB literature, with an emphasis on proper tone production, artistic performance and expression. Students will develop sight-reading and ear-training skills.

*Offered at AIHS*

## CONCERT CHOIR

**0838**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12 (MEN'S)**  
**GRADES 11-12 (WOMEN'S)**

This selective vocal ensemble course emphasizes proper tone production, artistic performance and expression. Students perform standard choral literature selected from various periods and styles. This is a performance elective and concert attendance is mandatory.

*Offered at AIHS, CSS and JDHS*

## MIXED CHORUS

**0841**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

In this ensemble students will learn two, three and four-part harmony from a variety of cultures, periods and styles.

*Offered at AIHS, CSS and JDHS*

## EXPLORING MUSIC

**0991**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

Students will learn concepts needed for understanding a wide variety of music, with practice in listening, discussing and analyzing music.

*Offered at AIHS and TMHS*

# VOCAL ARTS

## VOCAL MUSIC I

**0834**  
**FULL YEAR**  
**1 CREDIT**  
**GRADE 9**

This course teaches singing techniques for both solo and ensemble performances. With an emphasis on diction, phrasing, vowel placement and proper tonal production, students will learn to sing in Italian, French, German, Latin and African. Sight-singing, ear-training, rhythmic accuracy, the International Phonetic Alphabet, and musical terms are also covered.

*Offered at CCSA*

## VOCAL MUSIC II

**0835**  
**FULL YEAR**  
**1 CREDIT**  
**GRADE 10**

This course builds on Vocal Music I, with students taking on a more active role as mentors. **PREREQUISITE:** Vocal Music I.

*Offered at CCSA*

## VOCAL MUSIC III

**0836**  
**FULL YEAR**  
**1 CREDIT**  
**GRADE 11**

Students will continue to develop singing and music reading abilities through self-directed learning in this course. **PREREQUISITE:** Vocal Music II.

*Offered at CCSA*

## VOCAL MUSIC IV

**0994**  
**FULL YEAR**  
**1 CREDIT**  
**GRADE 12**

In this course students will enhance their singing technique and sight-singing skills, while diving deeper into key signatures, music theory and analysis. Students take on the role of mentors to the newer singers in this course. **PREREQUISITE:** Vocal Music III.

*Offered at CCSA*

## FUNDAMENTALS OF MUSIC THEORY

**0830**  
**1 SEMESTER**  
**0.5 CREDIT**  
**GRADES 9-12**

This course covers music theory topics for the beginner. Music theory principles will be introduced and applied as students learn the ins and outs of basic theory through sight-reading, ear training, dictation and class discussion.

*Offered at AIHS and CCSA*

## SIGHT-SINGING & EAR TRAINING

**0797**  
**1 SEMESTER**  
**0.5 CREDIT**  
**GRADES 9-12**

This course offers an introduction to sight singing and ear training. Students are also trained to recognize aurally and notate the basic elements of music, including intervals, diatonic melodies, simple rhythms, chord qualities, and basic harmonic progressions.

*Offered at CCSA*

## FUNDAMENTALS OF THE MUSIC BUSINESS

**1205**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

This course offers an introduction to the music business, with topics including historical and current trends of the music industry, recording artist contracts, contracts with minors, independent record production, labor agreements, foreign distribution, sound recordings, U.S. Copyright Law, performing rights organizations, public domain, royalties, music for the theater.

*Offered at CCSA*

## JAZZ CHOIR

**0848**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 9-12**

This performance-based ensemble performs frequently throughout the school year. Rhythm section players are also invited to participate in this group. This ensemble is an auditioned choir.

*Offered at CCSA*

## MUSICAL THEATER

**0847**  
**FULL YEAR**  
**1 CREDIT**  
**GRADES 11-12**

In this course students learn everything from singing sixteen bars of a Broadway song to performing a cold reading. Topics include singing, acting, movement, Broadway musicals and styles, with opportunities to perform as an ensemble at out-of-school events.

*Offered at CCSA*

# WORLD LANGUAGES

All Red Clay World Language courses develop student proficiency based on the Delaware World Readiness Standards for learning languages. Goal areas include the 5 Cs: Communication, Cultures, Connections, Comparisons, and Communities. Success in communication is measured by how well learners are able to use language as they improve their performance from the Novice to the Advanced ranges of proficiency.

Students who demonstrate an intermediate-mid or higher level of proficiency in reading writing, and speaking can qualify for the Delaware Certificate of Multi-literacy.

Students have the option to demonstrate proficiency on a national test to earn credit as per the Delaware graduation requirements.

## CHINESE

### CHINESE I (MANDARIN)

**0561**  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This course builds a basic knowledge of spoken and written Chinese vocabulary through practice in listening, speaking, reading and writing. With an introduction to the culture of Chinese-speaking countries, students will learn through interpretive, interpersonal and presentational communication. Proficiency Target: Novice Mid.

*Offered at CSS*

### CHINESE II (MANDARIN)

**0562**  
FULL YEAR  
1 CREDIT  
GRADES 9-12

Students will continue to develop their understanding of Chinese with increased grammatical study, reading, writing and conversation. Proficiency Target: Novice High. **PREREQUISITE:** Chinese I.

*Offered at CSS*

### CHINESE III (MANDARIN)

**0563-H**  
FULL YEAR  
1 CREDIT  
GRADES 10-12

Students will expand their knowledge and appreciation of the Chinese language and culture. With more complex grammar, vocabulary and cultural elements, students develop proficiency through sustained oral and written communication. Proficiency Target: Novice High to Intermediate Low. **PREREQUISITE:** Chinese II.

*Offered at CSS*

### CHINESE IV (MANDARIN)

**0564-H**  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course builds on structures learned in Chinese III and introduces more advanced grammar and vocabulary. Students will read, analyze and discuss authentic literary and contemporary texts to increase their communicative and cultural competency. Proficiency Target: Intermediate Low. **PREREQUISITE:** Chinese III.

*Offered at CSS*

### AP CHINESE LANGUAGE & CULTURE

**0565**  
FULL YEAR  
1 CREDIT  
GRADES 11-12

Conducted entirely in Mandarin, this course is designed to prepare students for the AP Chinese Language & Culture Exam. Students will sharpen their listening, speaking, reading and writing skills, with the goal of achieving mastery. Proficiency Target: Intermediate Mid. **PREREQUISITE:** Chinese IV.

*Offered at CSS*

# WORLD LANGUAGES

## FRENCH

### FRENCH I

0521  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This course builds a basic knowledge of spoken and written French vocabulary through practice in listening, speaking, reading and writing. With an introduction to the culture of French-speaking countries, students will learn through interpretive, interpersonal and presentational communication. Proficiency Target: Novice Mid to Novice High.

*Offered at AIHS, CCSA, JDHS and TMHS*

### FRENCH II

0522  
FULL YEAR  
1 CREDIT  
GRADES 9-12

Students will continue to develop their understanding of French with increased grammatical study, reading, writing and conversation. Proficiency Target: Novice High to Intermediate Low. **PREREQUISITE:** French I.

*Offered at AIHS, CCSA, JDHS and TMHS*

### FRENCH III

0523-H  
FULL YEAR  
1 CREDIT  
GRADES 10-12

Students will expand their knowledge and appreciation of the French language and culture. With more complex grammar, vocabulary and cultural elements, students develop proficiency through sustained oral and written communication. Proficiency Target: Intermediate Low to Intermediate Mid. **PREREQUISITE:** French II.

*Offered at AIHS, CCSA, JDHS and TMHS*

### FRENCH IV

0524-H  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course builds on structures learned in French III and introduces more advanced grammar and vocabulary. Students will read, analyze and discuss authentic literary and contemporary texts to increase their communicative and cultural competency. Proficiency Target: Intermediate Mid to Intermediate High. **PREREQUISITE:** French III.

*Offered at AIHS, CCSA, JDHS and TMHS*

### AP FRENCH LANGUAGE & CULTURE

0529  
FULL YEAR  
1 CREDIT  
GRADE 12

Conducted entirely in French, this course is designed to prepare students for the AP French Language & Culture Exam. Students will sharpen their listening, speaking, reading and writing skills, with the goal of achieving mastery. Proficiency Target: Intermediate High to Advanced Mid. **PREREQUISITE:** French IV.

*Offered at CCSA and JDHS*

### IB FRENCH SL 11

2532  
FULL YEAR  
1 CREDIT  
GRADE 11

This course is conducted entirely in French. Students will build language acquisition and advancing linguistic abilities through the development of receptive, productive and interactive skills. Students will communicate in both oral and written French, using and understanding appropriate vocabulary and grammar in a variety of situations. Students will also develop an awareness of French culture with a goal of demonstrating international mindedness. Proficiency Target: Intermediate Mid to Intermediate High. **PREREQUISITE:** French III.

*Offered at JDHS*

# WORLD LANGUAGES

## IB FRENCH SL 12 2542 FULL YEAR 1 CREDIT GRADE 12

This course is conducted entirely in French. Students continue the study of French language and culture, with activities including oral and listening interaction, and a range of reading texts at various levels of difficulty. Students communicate in both oral and written French, using and understanding vocabulary and grammar in a variety of situations. Proficiency Target: Intermediate High to Advanced Low. **PREREQUISITE:** IB French SL 11.

*Offered at JDHS*

## ITALIAN

### ITALIAN I 0551 FULL YEAR 1 CREDIT GRADES 9-12 (TMHS) GRADES 11-12 (AIHS & CSS)

This course builds a basic knowledge of spoken and written Italian vocabulary through practice in listening, speaking, reading and writing. With an introduction to the culture of Italian-speaking countries, students will learn through interpretive, interpersonal and presentational communication. Proficiency Target: Novice Mid to Novice High.

*Offered at AIHS, CSS and TMHS*

*(Note: This course may be taught as a distance learning course.)*

### ITALIAN II 0552 FULL YEAR 1 CREDIT GRADES 9-12

Students will continue to develop their understanding of Italian with increased grammatical study, reading, writing and conversation. Proficiency Target: Novice High to Intermediate Low.

**PREREQUISITE:** Italian I.

*Offered at TMHS*

### ITALIAN III 0553-H FULL YEAR 1 CREDIT GRADES 10-12

Students will expand their knowledge and appreciation of the Italian language and culture. With more complex grammar, vocabulary and cultural elements, students develop proficiency through sustained oral and written communication. Proficiency Target: Intermediate Low to Intermediate Mid. **PREREQUISITE:** Italian II.

*Offered at TMHS*

### ITALIAN IV 0554-H FULL YEAR 1 CREDIT GRADES 11-12

This course builds on structures learned in Italian III and introduces more advanced grammar and vocabulary. Students will read, analyze and discuss authentic literary and contemporary texts to increase their communicative and cultural competency. Proficiency Target: Intermediate Mid to Intermediate High.

**PREREQUISITE:** Italian III.

*Offered at TMHS*

### AP ITALIAN LANGUAGE & CULTURE 0555 FULL YEAR 1 CREDIT GRADES 11-12

Conducted entirely in Italian, this course is designed to prepare students for the AP Italian Language & Culture Exam. Students will sharpen their listening, speaking, reading and writing skills, with the goal of achieving mastery. Proficiency Target: Intermediate High to Advanced Mid. **PREREQUISITE:** Italian IV.

*Offered at TMHS*

# WORLD LANGUAGES

## SPANISH

### SPANISH I

0511  
FULL YEAR  
1 CREDIT  
GRADES 9-12

This course builds a basic knowledge of spoken and written Spanish vocabulary through practice in listening, speaking, reading and writing. With an introduction to the culture of Spanish-speaking countries, students will learn through interpretive, interpersonal and presentational communication. Proficiency Target: Novice Mid to Novice High.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

### SPANISH II

0514  
FULL YEAR  
1 CREDIT  
GRADES 9-12

Students will continue to develop their understanding of Spanish with increased grammatical study, reading, writing and conversation. Proficiency Target: Novice High to Intermediate Low. **PREREQUISITE:** Spanish I.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

### SPANISH III

0515-H  
FULL YEAR  
1 CREDIT  
GRADES 10-12

Students will expand their knowledge and appreciation of the Spanish language and culture. With more complex grammar, vocabulary and cultural elements, students develop proficiency through sustained oral and written communication. Proficiency Target: Intermediate Low to Intermediate Mid. **PREREQUISITE:** Spanish II.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

### SPANISH III FOR NATIVE SPEAKERS

0506-H  
FULL YEAR  
1 CREDIT  
GRADES 9-12

In this course, native Spanish speakers will expand their knowledge and appreciation of the Spanish language and culture. With more complex grammar, vocabulary, and cultural elements, this course develops language proficiency in expanded, sustained oral and written communication. Proficiency Target: Intermediate Mid. **PREREQUISITE:** Spanish II.

*Offered at AIHS, JDHS and TMHS*

### SPANISH III PRE-AP

0557-H  
FULL YEAR  
1 CREDIT  
GRADES 10-12

This course is designed for students who plan to take AP Spanish Language & Culture. Students will expand their knowledge and appreciation of the Spanish language and culture. With more complex grammar, vocabulary and cultural elements, students develop proficiency through sustained oral and written communication. Proficiency Target: Intermediate Mid to Intermediate High. **PREREQUISITE:** Spanish II

*Offered at CCSA and CSS*

### SPANISH IV

0517-H  
FULL YEAR  
1 CREDIT  
GRADES 11-12

This course builds on structures learned in Spanish III and introduces more advanced grammar and vocabulary. Students will read, analyze and discuss authentic literary and contemporary texts to increase their communicative and cultural competency. Proficiency Target: Intermediate Mid to Intermediate High. **PREREQUISITE:** Spanish III.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

# WORLD LANGUAGES

## SPANISH IV FOR NATIVE SPEAKERS

0507-H  
FULL YEAR  
1 CREDIT  
GRADES 11-12

In this course, native Spanish speakers will learn more advanced grammar and vocabulary, with analysis and discussion of authentic contemporary texts to increase their communicative and cultural competency. Proficiency Target: Intermediate High.

**PREREQUISITE:** Spanish III for Native Speakers.

*Offered at AIHS, JDHS and TMHS*

## AP SPANISH LANGUAGE & CULTURE

0500  
FULL YEAR  
1 CREDIT  
GRADES 11-12

Conducted entirely in Spanish, this course is designed to prepare students for the AP Spanish Language & Culture Exam. Students will sharpen their listening, speaking, reading and writing skills with the goal of achieving mastery. Proficiency Target: Intermediate High to Advanced Mid.

**PREREQUISITE:** AP Spanish III Pre-AP or Spanish IV.

*Offered at AIHS, CCSA, CSS, JDHS and TMHS*

## AP SPANISH LITERATURE & CULTURE

0508  
FULL YEAR  
1 CREDIT  
GRADES 11-12

Conducted entirely in Spanish, this course is designed to prepare students for the AP Spanish Literature & Culture Exam. Students will sharpen their reading comprehension and analytical skills by examining and comparing literary works from the Spanish-speaking world. Students communicate in both oral and written Spanish, using and understanding vocabulary and grammar in a variety of situations. Proficiency Target: Intermediate High to Advanced Mid. **PREREQUISITE:** AP Spanish Language and Culture.

*Offered at CSS*

## IB SPANISH SL 11 2552

FULL YEAR  
1 CREDIT  
GRADE 11

This course is conducted entirely in Spanish. Students build language, acquisition and advanced linguistic abilities through the development of receptive, productive and interactive skills. Students communicate in both oral and written Spanish, using and understanding vocabulary and grammar in a variety of situations. Students also develop an awareness of Spanish culture with a goal of demonstrating international mindedness. Proficiency Target: Intermediate Mid to Intermediate High. **PREREQUISITE:** Spanish III.

*Offered at JDHS*

## IB SPANISH SL 12 2562

FULL YEAR  
1 CREDIT  
GRADE 12

This course is conducted entirely in Spanish. Students continue the study of Spanish language and culture, with activities including oral and listening interaction, and a range of reading texts at various levels of difficulty. Students communicate in both oral and written Spanish, using and understanding vocabulary and grammar in a variety of situations. Proficiency Target: Intermediate High to Advanced Low. **PREREQUISITE:** IB Spanish SL 11.

*Offered at JDHS*





# FUTURE **READY**



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