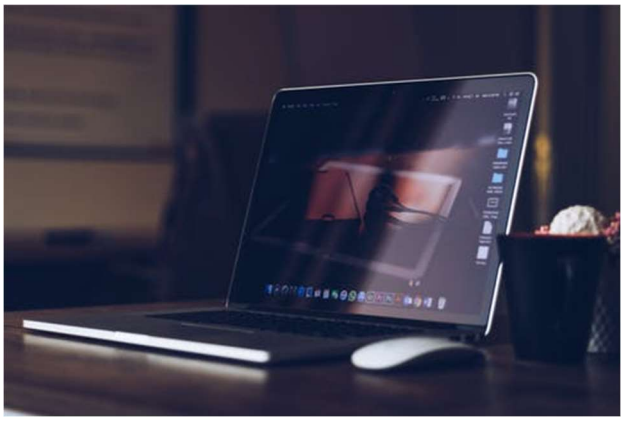
DESTINATIONS
CAREER ACADEMY
of COLORADO

POWERED BY K12

High School Course Catalog 2023-2024



Destinations Career Academy's mission is to inspire our students through meaningful, individualized, and engaging learning opportunities to prepare our graduates for successful careers in the 21st century.

Non-Discrimination Statement

The Destinations Career Academy of Colorado does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups.[1] In addition, lack of English skills will not be a barrier to admission and participation in any school programs or activities. Additionally, offered CTE opportunities are without regard to race, color, national origin, sex, or handicap. CODCA provides procedural processes to any person calling attention to a grievance wherein the institution follows for investigation of the issue. Complaints accepted verbally, written or by appointment in an in-person or virtual face-to-face meeting. Each party pertaining to the complaint receives notice of complaint and all parties receive a timeline of actions of procedure within 10-days of notification to all parties of such a grievance. The following person is the designee to handle inquiries regarding the non-discrimination policies:

Adelita Shepherd, Non-Discrimination Coordinator, Compliance and Family Engagement Coordinator
8601 Turnpike Dr., #100, Westminster, CO 80031
ashepherd@k12.com | 303.399.4702

For further information on notice of non-discrimination, visit https://www2.ed.gov/policy/rights/reg/ocr/edlite-34cfr104.html#S8 for the address and phone number of the office that serves your area, or call 1-800-421-3481

Graduation Requirements

CODCA students graduating in 2021 or after must meet the following graduation requirements:

A Minimum of 23 credits earned in required subject areas described below
Demonstration of College or Career Readiness as shown below

REQUIRED COURSE CREDITS

SUBJECT	CREDIT REQUIREMENTS	HEAR REQUIREMENTS (Higher Education Admission Recommendations for those interested in attending a 4-year university)
ENGLISH	3	4
MATH	3	4
SCIENCE	3	3
HISTORY	3	3
HEALTH/PE	.5	
CTE COURSES and ELECTIVES	10.5	4 (2 in world languages and 2 in academic electives)
TOTAL	23	

*All CODCA students are required to take a minimum of 2 CTE courses (total of 1 credit) per year.
**Students desiring to attend a specific college should check requirements of that college to ensure correct credits are earned.

DEMONSTRATION OF COLLEGE OR CAREER READINESS OPTIONS

Students must meet at least one requirement in English and one in Math

DEMONSTRATION OPTIONS	ENGLISH	MATH
School Capstone A capstone is the culminating exhibition of a student's project or experience that demonstrates academic and intellectual learning. Capstone projects are school determined and often include a portfolio of a student's best work.	**Individualized Project**	**Individualized Project**
	CTE Focused Individualized Project within pathway	
CTE Based Industry Certificate An industry certificate is a credential recognized by business and industry. Industry certificates are district determined, measure a student's competency in an occupation, and they validate a knowledge base and skills that show mastery in an industry.	**Specific to CTE Course**	**Specific to CTE Course**
	MOS Excel / MOS Word / MOS PPT / ADOBE Illustrator / ADOBE Dreamweaver / ADOBE Photoshop / ADOBE InDesign / SolidWorks AND *More to come	
SAT The SAT is a college entrance exam that is accepted or required at nearly all four-year colleges and universities in the U.S. The current SAT includes sections on reading, writing and math. The highest possible score for each section is 800.	**ENGLISH** **470**	**MATH** **500**
ACT ACT is a national college admissions exam. It measures four subjects - English, reading, math and science. The highest possible score for each subject is 36.	**ACT ENGLISH** **18**	**ACT MATH** **19**
Classic Accuplacer ACCUPLACER is a computerized test that assesses reading, writing, math and computer skills. The results of the assessment are used by academic advisors and counselors to place students in college courses to match their skill levels.	**62 on Reading Comp.** **OR** **70 on Sentence Skills**	**61 on Elementary Algebra**
Next Generation Accuplacer ACCUPLACER is a computerized test that assesses reading, writing, math and computer skills. The results of the assessment are used by academic advisors	**241 on Reading** **OR** **236 on Writing**	**255 on AR** **OR** **230 on QAS**

and counselors to place students in college courses to match their skill levels.		
AP (Advanced Placement) AP exams test students' ability to perform at a college level. Districts choose which AP exams will fulfill this menu option. Scores range from 1 to 5 (highest).	**2 or Higher**	**2 or Higher**
CE (Concurrent Enrollment) Concurrent enrollment provides students the opportunity to enroll in postsecondary courses, simultaneously earning high school and college credit. An eligible concurrent enrollment course is 1) the prerequisite directly prior to a credit-bearing course or 2) a credit-bearing course.	**C or Higher**	**C or Higher**
ASVAB The Armed Services Vocational Aptitude Battery (ASVAB) is a comprehensive test that helps determine students' eligibility and suitability for careers in the military. Students who score at least 31 on the AFQT are eligible for service (along with other standards). Students who take the ASVAB are not required to enlist in the military.	**31 on AFQT**	**31 on AFQT**

Course Offerings by Semester

ENGLISH

Codes	Fall Semester Courses	Codes	Spring Semester Courses
ENG108AE2	*English 9A*	*ENG108BE2*	*English 9B*
ENG208AE2	*English 10A*	*ENG208BE2*	*English 10B*
ENG303AE3	*American Literature A*	*ENG303BE3*	*American Literature B*
ENG403A	*British and World Lit*	*ENG403B*	*British and World Lit*
ENG030AD	*Creative Writing A*	*ENG030BD*	*Creative Writing B*
ENG020	*Public Speaking*	*ENG010*	*Journalism*

SCIENCE

Codes	Fall Semester Courses	Codes	Spring Semester Courses
SCI102AE3	*Physical Science A*	*SCI102BE3*	*Physical Science B*
SCI113AE3	*Earth Science A*	*SCI113BE3*	*Earth Science B*
SCI203AE3	*Biology A*	*SCI203BE3*	*Biology B*
SCI330A	*Anatomy and Physiology A*	*SCI330B*	*Anatomy and Physiology B*
SCI020	*Astronomy*		
OTH033B	*Principles of Animal and Veterinary Sciences A*	*OTH033B*	*Principles of Animal and Veterinary Sciences B*
SCI030AD	*Forensic Science*	*SCI010BD*	*Environmental Science*
SCI303AE3	*Chemistry A*	*SCI303BE3*	*Chemistry B*
SCI403A	*Physics A*	*SCI403B*	*Physics B*

MATH π

Codes	Fall Semester Courses	Codes	Spring Semester Courses
MTH107A	*Developmental Algebra A*	*MTH107B*	*Developmental Algebra B*
MTH207A	*Continuing Algebra A*	*MTH207B*	*Continuing Algebra B*
MTH128A CO	*Algebra 1A*	*MTH128B CO*	*Algebra 1B*
MTH208A	*Geometry A*	*MTH208B*	*Geometry B*
MTH308A	*Algebra 2A*	*MTH308B*	*Algebra 2B*
MTH403AD	*Pre Calculus*	*MTH403BD*	*Trigonometry*
MTH322AD	*Consumer Math A*	*MTH322BD*	*Consumer Math B*
MTH307A	*Practical Math A*	*MTH307B*	*Practical Math B*

HISTORY

Codes	Fall Semester Courses	Codes	Spring Semester Courses
HST403DE3N	*Government*	*HST213ADE3N*	*Geography*
HST103AE4N	*World History A*	*HST103BE4N*	*World History B*
HST303AE3N	*US History A*	*HST303BE3N*	*US History B*
HST012D	*Anthropology*	*HST030DE4*	*Economics*
HST060	*Sociology*	*HST020D*	*Psychology*

HEALTH/PE

Codes	Fall Semester Courses	Codes	Spring Semester Courses
OTH010	*Health*	*OTH020A*	*PE*
CS-ATHLETE 1 SM 1	*Student Athlete 1*	*CS-ATHLETE 2 SM 2*	*Student Athlete 2*

ELECTIVES

Codes	Fall Semester Courses	Codes	Spring Semester Courses
ART010A	*Fine Art*	*OTH182*	*Interior Design*
		OTH-090-AVT	*Life Skills*
WLG100AE2	*Spanish 1A*	*WLG100BE2*	*Spanish 1B*
WLG200AE2	*Spanish 2A*	*WLG200BE2*	*Spanish 2B*
WLG300AE2	*Spanish 3A*	*WLG300BE2*	*Spanish 3B*
CS-INDPNDNT STUDY SM 1	*Independent Study 1*	*CS-INDPNDNT STUDY SM 2*	*Independent Study 2*
D-CS-Foundations of Music A	*Performance Studio 1*	*D-CS-Foundations of Music B*	*Performance Studio 2*
ORN 100, 200, 300, 400	*Finding Your Path*	*Year long course*	*Finding Your Path*

AGRICULTURE, FOOD & NATURAL RESOURCES PROGRAM

Codes	Fall Semester Courses	Codes	Spring Semester Courses
CAR045E2-PBL	*Introduction to Agriculture A*	*AGR111-DYN*	*Introduction to Agriculture B*
AGR220E3	*Principles of Food Science A*	*CS Principles of Food Science B*	*Principles of Food Science B*
CS Principles of Food Production A	*Principles of Food Production A*	*AGR210E2*	*Principles of Food Production B*
OTH033	*Principles of Animal and Veterinary Science A*	*CS Veterinary Science B*	*Principles of Animal and Veterinary Science B*
AGR211-CEN	*Animal Production A-1*	*AGR211-CEN*	*Animal Production A-2*
AGR212-CEN	*Animal Production B-1*	*AGR212-CEN*	*Animal Production B-2*
AGR213-CEN	*Advanced Animal Production and Management A*	*AGR213-CEN*	*Advanced Animal Production and Management B*
AGR020-DYN	*Introduction to Forestry and Natural Resources A*	*CS Introduction to Forestry and Natural Resources B*	*Introduction to Forestry and Natural Resources B*
AGR240	*Wildlife, Fisheries, and Ecology Management A*	*AGR241*	*Wildlife, Fisheries, and Ecology Management B*
CS-WORKEXPRNCE CTE-A	*Work Experience 1*	*CS-WORKEXPRNCE CTE- B*	*Work Experience 2*
WBL 511A	*CTE Internship A*	*WBL 511B*	*CTE Internship B*

BUSINESS MANAGEMENT PROGRAM

Codes	Fall Semester Courses	Codes	Spring Semester Courses
BUS024E3	*Introduction to Business*	*BUS030*	*Personal Finance*

BUS113-CEN	*Accounting Principles 1A*	*BUS113-CEN*	*Accounting Principles 1B*
BUS114-CEN	*Accounting Principles 2A*	*BUS114-CEN*	*Accounting Principles 2B*
BUS045E2-PBL	*Intro to Entrepreneurship*	*BUS055E2-PBL*	*Entrepreneurship*
TCH122	*Microsoft Excel Fundamentals*	*CS Intro to Web Based Applications*	*Introduction to Web Based Applications*
CS-WORKEXPRNCE CTE-A	*Work Experience 1*	*CS-WORKEXPRNCE CTE- B*	*Work Experience 2*
WBL 511A	*CTE Internship A*	*WBL 511B*	*CTE Internship B*

CRIMINAL JUSTICE & PUBLIC SAFETY PROGRAM

Codes	Fall Semester Courses	Codes	Spring Semester Courses
LAW110-PBL	*Careers in Criminal Justice 1*	*LAW111-PBL*	*Careers in Criminal Justice 2*
HST060	*Sociology*	*HST020*	*Psychology*
SCI030E2	*Forensic Science*	*LAW220*	*Criminology*
		Through NJC CE	*Introduction to Criminal Justice (CE through NJC)*
CS-WORKEXPRNCE CTE-A	*Work Experience 1*	*CS-WORKEXPRNCE CTE- B*	*Work Experience 2*
WBL 511A	*CTE Internship A*	*WBL 511B*	*CTE Internship B*

EDUCATION & TRAINING PROGRAM

Codes	Fall Semester Courses	Codes	Spring Semester Courses
CAR050	*Education and Training Explorations*	*HST020-AVT*	*Psychology*

OTH110-CEN	*Understanding Child Development*	*OTH161*	*Early Childhood Education*
CS Educator Capstone CRE A	*Educator Capstone*	*CS Educator Capstone CRE A*	*Educator Capstone*
CS-WORKEXPRNCE CTE-A	*Work Experience 1*	*CS-WORKEXPRNCE CTE- B*	*Work Experience 2*
WBL 511A	*CTE Internship A*	*WBL 511B*	*CTE Internship B*

ENGINEERING & TECHNOLOGY PROGRAM

Codes	Fall Semester Courses	Codes	Spring Semester Courses
CAR031-DYN	*Engineering Explorations*	TCH211AE2	*PBL Computer Science Foundations*
OTH212-CEN	*Principles of Engineering & Technology A*	OTH213-CEN	*Principles of Engineering & Technology B*
MFG240	*Introduction to Engineering Design A*	*MFG250*	*Introduction to Engineering Design B*
OTH211-CEN	*Mechanical Engineering*	*TCH160*	*Robotics*
CS-WORKEXPRNCE CTE-A	*Work Experience 1*	*CS-WORKEXPRNCE CTE- B*	*Work Experience 2*
WBL 511A	*CTE Internship A*	*WBL 511B*	*CTE Internship B*

HEALTH SCIENCE PROGRAM

Codes	Fall Semester Courses	Codes	Spring Semester Courses
CAR019-PBL	*Introduction to Health Science A*	*OTH080*	*Human Nutrition for Health Science*
OTH094-DYN	*Introduction to Health Science B*		

HLT213-CEN	*Medical Terminology A*	*HLT214-CEN*	*Medical Terminology B*
SCI330A	*Anatomy and Physiology A*	*SCI330B*	*Anatomy and Physiology B*
HLT410-PBL	*Nursing Assistant:Introduction*	*HLT411-PBL*	*Nursing Assistant: Patient Care*
HLT420A	*Medical Assistant with Exam Prep 1*	*HLT420B*	*Medical Assistant with Exam Prep 2*
CS Emergency Medical Dispatch A	*Emergency Medical Dispatch A*	*CS Emergency Medical Dispatch B*	*Emergency Medical Dispatch B*
HLT470	*Phlebotomy*	*HLT471*	*Electrocardiography*
CS QMAP 1	*Qualified Medication Administration Personnel (QMAP) 1*	*CS QMAP 2*	*Qualified Medication Administration Personnel (QMAP) 2*
HLT431A	*Pharmacy Technician Principles and Practices A*	*HLT431B*	*Pharmacy Technician Principles and Practices B*
Through NJC	*Sports Medicine- (CE through NJC)*	*Through NJC*	*Care and Prevention of Athletic Injuries- (CE through NJC)*
CS-WORKEXPRNCE CTE-A	*Work Experience 1*	*CS-WORKEXPRNCE CTE- B*	*Work Experience 2*
WBL 511A	*CTE Internship A*	*WBL 511B*	*CTE Internship B*

HOSPITALITY & FOOD PRODUCTION PROGRAM

Codes	Fall Semester Courses	Codes	Spring Semester Courses
BUS024E3	*Introduction to Business*	*BUS020*	*Intro to Restaurant Management*
OTH-171E1	*Culinary Arts 1*	*OTH-172E1*	*Culinary Arts 2*
OTH350	*Food Handling- Serve Safe*		
OTH-171E1	*Culinary Arts 1*	*OTH-172E1*	*Culinary Arts 2*
CS-WORKEXPRNCE CTE-A	*Work Experience 1*	*CS-WORKEXPRNCE CTE- B*	*Work Experience 2*
WBL 511A	*CTE Internship A*	*WBL 511B*	*CTE Internship B*

INFORMATION TECHNOLOGY PROGRAM

Codes	Fall Semester Courses	Codes	Spring Semester Courses
CAR095E2-PBL	*IT Explorations- Programming*	*TCH211AE2*	*PBL Computer Science Foundations*
TCH500A	*AP Computer Science Principles A*	*TCH500B*	*AP Computer Science Principles B*
TCH323ADE4	*Coding 1A*	*TCH342ADE4*	*Coding 2A*
TCH073AE2-PBL	*Game Design A*	*TCH074BE2-PBL*	*Game Design B*
TCH323BDE3	*Coding 1B*	*TCH342BDE3*	*Coding 2B*
TCH553DE2	*Cybersecurity 1A*	*CS Cybersecurity 1B*	*Cybersecurity I B*
TCH551-CEN	*Security +1*	*TCH552-CEN*	*Security +2*
TCH510AE2	*AP Computer Science A*	*TCH510BE2*	*AP Computer Science B*
TCH520	*Data Structures with C++*	*TCH310DE3*	*Mobile Apps*
CS-WORKEXPRNCE CTE-A	*Work Experience 1*	*CS-WORKEXPRNCE CTE- B*	*Work Experience 2*
WBL 511A	*CTE Internship A*	*WBL 511B*	*CTE Internship B*

MARKETING PROGRAM

Codes	Fall Semester Courses	Codes	Spring Semester Courses
BUS024E3	*Introduction to Business*	*BUS030*	*Personal Finance*
BUS065E2-PBL	*Principles of Marketing A*	*BUS075E2-PBL*	*Principles of Marketing B*
BUS045E2-PBL	*Intro to Entrepreneurship*	*BUS055E2-PBL*	*Entrepreneurship*
TCH122	*Microsoft Excel Fundamentals*	*CS Intro to Web Based Applications*	*Introduction to Web Based Applications*
BUS090E21	*Sports and Entertainment Marketing*		
BUS113-CEN	*Accounting Principles 1A*	*BUS113-CEN*	*Accounting Principles 1B*
CS-WORKEXPRNCE CTE-A	*Work Experience 1*	*CS-WORKEXPRNCE CTE- B*	*Work Experience 2*
WBL 511A	*CTE Internship A*	*WBL 511B*	*CTE Internship B*

MEDIA ARTS PROGRAM

Codes	Fall Semester Courses	Codes	Spring Semester Courses
TCH031E2	*Commercial Photography 1A*	*CAR095E2-PBL*	*IT Explorations- Design*
TCH008DE3	*Web Design*	*TCH035E2-PBL*	*Digital Media A*
TCH028E2-PBL	*Foundations of Design, Multimedia Arts, & Digital Communications A*	*TCH029E2-PBL*	*Foundations of Design, Multimedia Arts, & Digital Communications B*
TCH441E3 A	*Adobe Photoshop*	*TCH441E3 B*	*Adobe Photoshop*
TCH421E3	*Adobe Illustrator with Exam Prep*	*TCH431E3*	*Adobe InDesign*
CS-WORKEXPRNCE CTE-A	*Work Experience 1*	*CS-WORKEXPRNCE CTE- B*	*Work Experience 2*
WBL 511A	*CTE Internship A*	*WBL 511B*	*CTE Internship B*

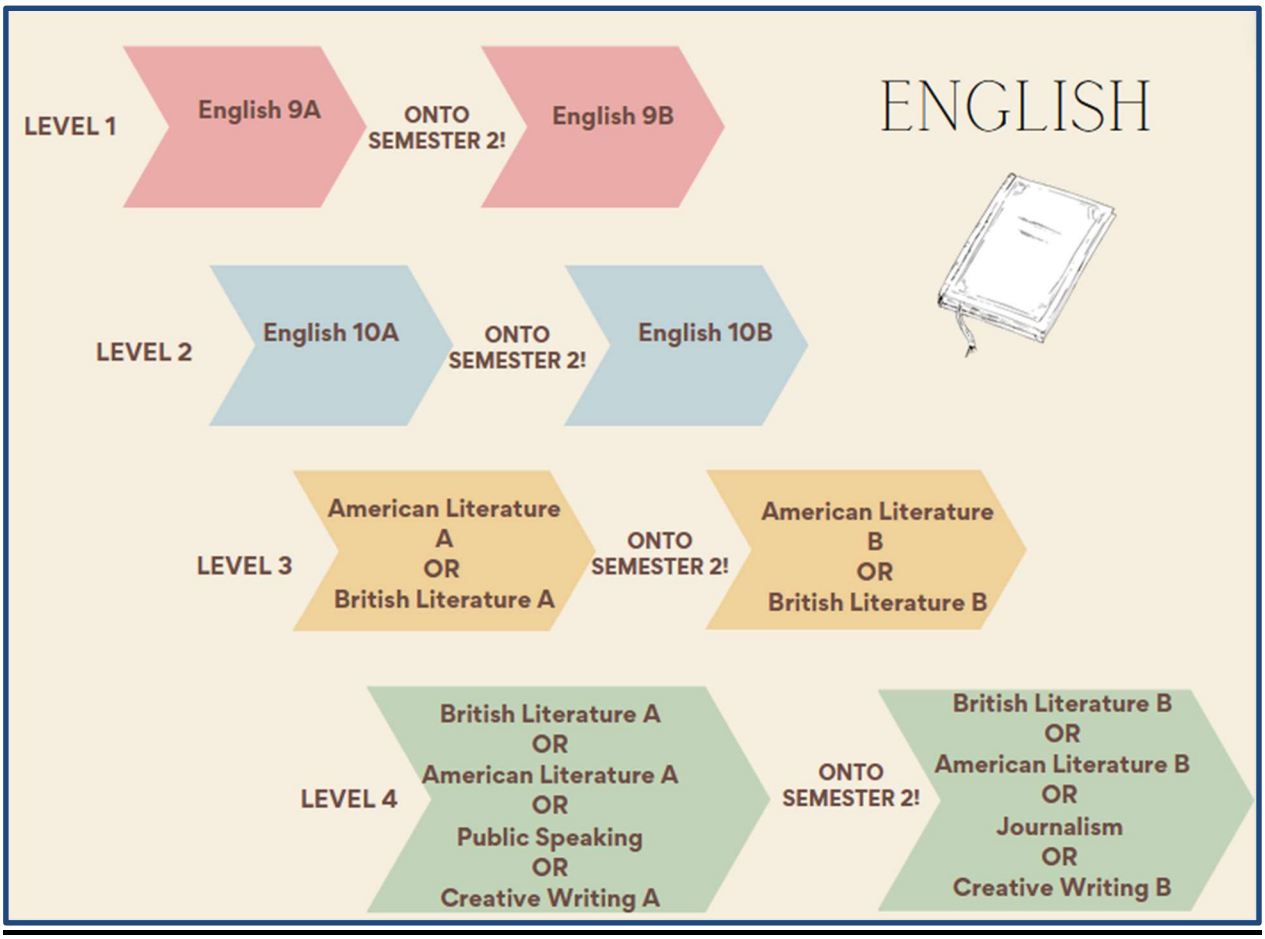
OUTDOOR RECREATIONAL LEADERSHIP PROGRAM

Codes	Fall Semester Courses	Codes	Spring Semester Courses
CS Outdoor Leadership 1	*Outdoor Leadership 1*	*CS Outdoor Leadership 2*	*Outdoor Leadership 2*
AGR020-DYN	*Introduction to Forestry and Natural Resources A*	*AGR020-DYN*	*Introduction to Forestry and Natural Resources B*
AGR240	*Wildlife, Fisheries, and Ecology Management A*	*AGR241*	*Wildlife, Fisheries, and Ecology Management B*
BUS045E2-PBL	*Intro to Entrepreneurship*	*BUS055E2-PBL*	*Entrepreneurship*
CS-WORKEXPRNCE CTE-A	*Work Experience 1*	*CS-WORKEXPRNCE CTE- B*	*Work Experience 2*
WBL 511A	*CTE Internship A*	*WBL 511B*	*CTE Internship B*

COURSE SEQUENCING AND DESCRIPTIONS

All courses, separated by content or programs/pathways, followed with a visual showing their sequencing and then course descriptions for individual courses (including prerequisites).

English - Sequencing



English - Course Descriptions

English 9

English 9 course includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to Grade 9. Throughout the course, students practice narrative, informative, and argument writing. Students also develop and deliver presentations, and participate in discussions with their peers.

- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: English***
- ***Materials: Summit Curriculum English 9–10: Explorations in Literature, The Way to Rainy Mountain, The Alchemist, A Midsummer Night's Dream; Computer must be equipped with a microphone and audio recording software***

English 10

English 10 course includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to Grade 10. Throughout the course, students practice narrative, informative, and argument writing. Students also develop and deliver presentations, and participate in discussions with their peers.

- ***Prerequisites: 9th Grade English or equivalent***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements in: English***
- ***Materials: Summit Curriculum English 9–10: Explorations in Literature, Cry, the Beloved Country, Night, Macbeth; Computer must be equipped with a microphone and audio recording software***

American Literature

In this course, students read and analyze works of American literature from colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests.

- ***Prerequisite: English 10 or equivalent***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements in: English***
- ***Materials:*** Journeys in Literature: American Traditions, Volume C; The Great Gatsby b Scott Fitzgerald; The Glass Menagerie by Tennessee Williams. Students will also read one selection of their choice from the following (not supplied): The Old Man and the Sea by Ernest Hemingway; The House on Mango Street by Sandra Cisneros; A Lesson Before Dying by Ernest Gaines; The Red Badge of Courage by Stephen Crane *(Reading selections are not final)*

British and World Literature

Students read selections from British and world literature in a loosely organized chronological framework. They analyze the themes, styles, and structures of these texts and make thematic connections among diverse authors, periods, and settings. Students complete guided and independent writing assignments that refine their analytical skills. They have

opportunities for creative expression in projects of their choice. Students also practice test-taking skills for standardized assessments in critical reading and writing.

- ***Prerequisite: English 10 or equivalent***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: English***
- ***Materials:*** Journeys in Literature: British and World Classics; Hamlet by William Shakespeare

Journalism

In this course, students produce news stories, editorials, features, and sports articles as they learn the basics of journalism. The course uses a textbook and covers laws and ethics, freedom of the press, and the principles of journalistic writing. Students learn how to generate ideas and conduct interviews. They improve their writing skills by concentrating on properly organizing their ideas and using correct grammar and vocabulary as they compose their articles and assignments. In the process, they learn how to think critically about the main ideas, points of view and bias, validity of sources, and the relevance of the various topics they write about.

- ***Prerequisite: Must already have earned 2 English credits or be enrolled in another English course***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: English***
- ***Materials: Introduction to Journalism, McDougal Littell (provided by K12)***

Public Speaking

Students are introduced to public speaking as an important component of their academic, professional, and social lives. They study public speaking occasions and develop skills as fair and critical listeners, or consumers, of spoken information and persuasion. Students study types of speeches (informative, persuasive, dramatic, and special occasion), read and listen to models of speeches, and prepare and present their own speeches to diverse audiences. Students learn to choose speaking topics and adapt them for specific audiences, to research and support their ideas, and to benefit from listener feedback. They will study how to incorporate well-designed visual and multimedia aids in presentations and how to maintain a credible presence in the digital world. Students will also learn about the ethics of public speaking and about techniques for managing communication anxiety.

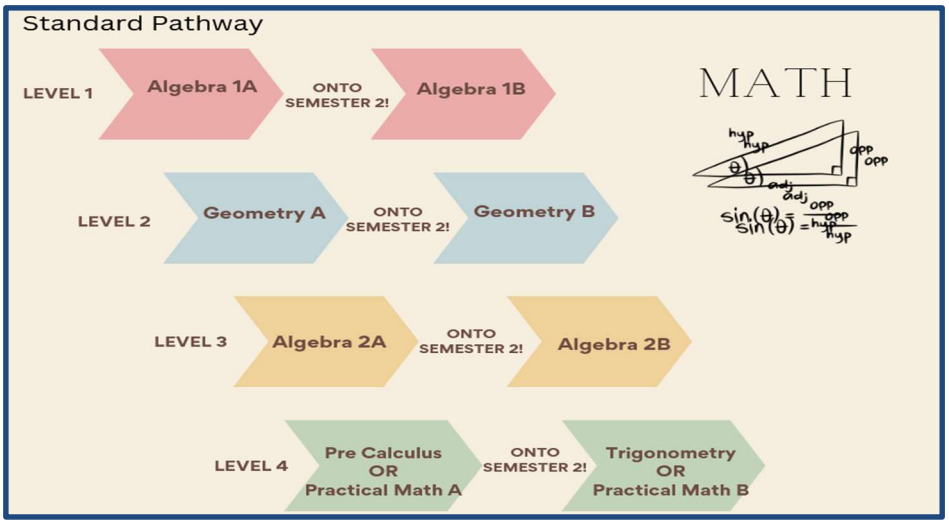
- ***Prerequisite: Must already have earned 2 English credits or be enrolled in another English course***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: English***
- ***Materials: Student must provide a webcam and recording software***

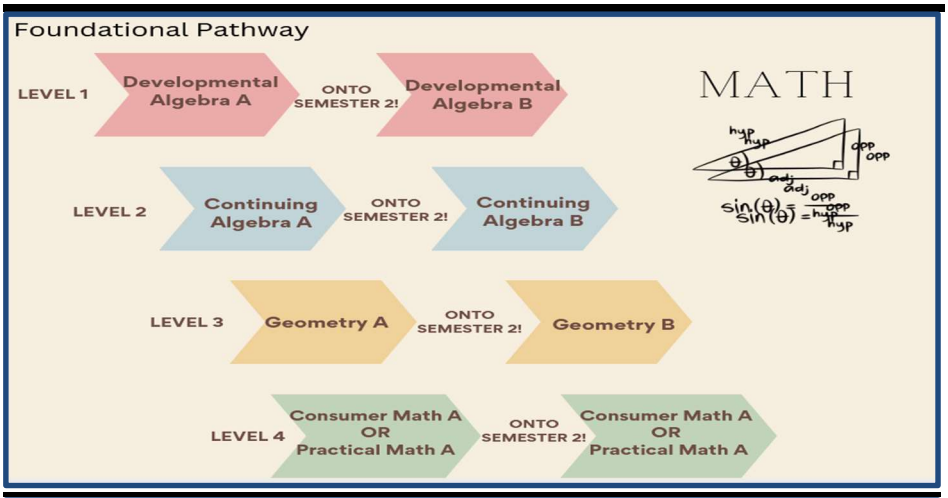
Creative Writing

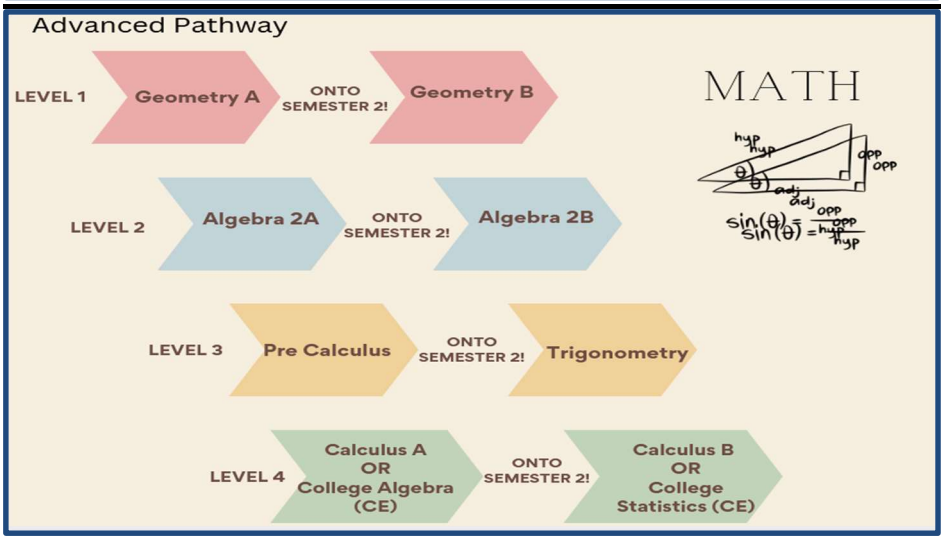
Students create original essays, poems, and short stories in this course, which uses two textbooks and focuses on the four-step-process writing model. They read professionally written forms of creative writing as models and then integrate their impressions of these works with their personal life experiences as they compose their own writing projects. Students are encouraged to write about topics they find engaging as they practice writing on the following themes: narration, definition, process analysis, cause and effect, and comparison/contrast. After students turn in each assignment, the teacher supplies detailed suggestions for revision. This feedback helps students learn how to improve their self-expression and self-editing skills.

- ***Prerequisite: Must already have earned 2 English credits or be enrolled in another English course***
- ***Course Length: Two semesters (each semester may be taken as a standalone class depending upon graduation needs)***
- ***Meets Graduation Requirements In: English***

Math - Sequencing







Math - Course Descriptions

Developmental Algebra

This is the first course in a two-year algebra sequence that concludes with Continuing Algebra. Students will begin to explore the tools and principles of algebra. Students learn to identify the structure and properties of the real number system; complete operations with integers and other rational numbers; work with square roots and irrational numbers; graph linear equations; solve linear equations and inequalities in one variable; and solve systems of linear equations. Sophisticated virtual manipulatives and online graphing tools help students visualize algebraic relationships. Developmental Algebra covers fewer topics than a one-year algebra course, providing students with more time to learn and practice key concepts and skills. After completing Developmental Algebra, students will be prepared to take Continuing Algebra.

- ***Prerequisite: None***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Math***
- ***Materials: Algebra I: Reference Guide and Problem Sets***

Continuing Algebra

This is the second course in a two-year algebra sequence. In this course, students build on what they learned in Developmental Algebra to complete their knowledge of all topics associated with a deep understanding of Algebra I. They learn about relations and functions, radicals and radical expressions, polynomials and their graphs, factoring expressions and using factoring to solve equations, solving quadratics, rational expressions, and logic and reasoning.

- ***Prerequisite: Developmental Algebra or equivalent***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Math***
- ***Materials: Algebra I: Reference Guide and Problem Sets***

Consumer Math

In Consumer Math, students study and review arithmetic skills they can apply in their personal lives and in their future careers. The first semester of the course begins with a focus on occupational topics; it includes details on jobs, wages, deductions, taxes, insurance, recreation and spending, and transportation. In the second semester of Consumer Math, students learn about personal finances, checking and savings accounts, loans and buying on credit, automobile expenses, and housing expenses. Narrated slideshows help illustrate some of the more difficult content. Throughout the course, students participate in online discussions with each other and their teacher.

- ***Prerequisite: Algebra or Dev/Continuing Alg or to be taken as an elective***
- ***Course Length: Two semesters (may be taken as standalone class depending upon what credits the student needs for graduation)***
- ***Meets Graduation Requirements In: Math***

Algebra 1

Algebra 1 course is intended to formalize and extend the mathematics that students learned in the middle grades. Because it is built to follow revised middle school math courses, the course covers slightly different ground than previous versions of Algebra. In this course, students deepen their understanding of linear and exponential relationships by contrasting them with each other. Students also apply linear models to data that exhibit a linear trend. The course also covers analyzing, solving, and using quadratic functions.

Note: Any student receiving a D in this course will be required to attend additional support sessions in Geometry.

- ***Prerequisite: None***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Math***
- ***Materials: Summit Curriculum Algebra 1 Reference Guide***

Geometry

Geometry course builds on the geometry covered in middle school to explore more complex geometric situations and deepen students' ability to explain geometric relationships, moving toward formal mathematical arguments. Specific topics include similarity and congruence, analytic geometry, circles, the Pythagorean theorem, right triangle trigonometry, analysis of three-dimensional objects, conic sections, and geometric modeling.

- ***Prerequisite: Algebra I or equivalent***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Math***
- ***Materials: basic compass, ruler, and graph paper for constructions; Summit Curriculum Geometry Reference Guide***

Practical Math

Students will use math to solve real-world problems—and real-world problems to solidify their understanding of key mathematical topics. Data analysis, math modeling, and personal finance are key themes in this course. Specific topics of study include statistics, probability, graphs of statistical data, regression, finance, and budgeting. In addition, students learn how to use several mathematical models involving algebra and geometry to solve problems. Proficiency is measured through frequent online and offline assessments, as well as class participation. Units focused on projects also allow students to apply and extend their math skills in real-world cases.

- ***Prerequisite: Algebra I and Geometry or Developmental Algebra and Continuing Algebra***
- ***Course Length: Two semesters (may be taken as standalone class depending upon what credits the student needs for graduation)***
- ***Meets Graduation Requirements In: Math***
- ***Materials: Practical Math: Reference Guide and Problem Sets (online)***

Algebra 2

Algebra 2 course, students build on their work with linear, quadratic, and exponential functions, and extend their repertoire to include polynomial, rational, radical, and trigonometric functions. Students also expand their ability to model situations and solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The course covers sequences and series, probability distributions, and more advanced data analysis techniques.

- ***Prerequisite: Algebra I and Geometry or equivalent***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Math***
- ***Materials: Summit Curriculum Algebra 2 Reference Guide***

Pre-Calculus/Trigonometry

1st semester Pre-calc: Students will learn advanced algebraic and introductory calculus topics, preparing students to take Calculus. Content includes polynomial functions, polar coordinates, complex

numbers, conic sections, exponential functions, logarithmic functions, sequences, and series. The course presents concepts through custom flash tutorials and provides lots of opportunities for students to practice their problem-solving skills. Lessons are supplemented with narrated examples that reinforce the concepts taught and help students apply these concepts as they complete their homework assignments. This course helps students understand how major pre-calculus topics relate to real-world situations and how it is used within the greater context of mathematics.

2nd semester Trigonometry: Students will understand how trigonometry is used in daily life and how it relates to other mathematical topics. The course begins with an introduction to trigonometry, including functions and relations, domain and range, composition of functions, performing operations on functions, and graphing functions. Students will learn trigonometric ratios, graphing trigonometric functions, and trigonometric laws and identities. Like Geometry, This is a very visual course; much of the content is accompanied with graphics and illustrations. There are custom self-checks throughout this course that pose problems in a "What do you think?" format.

- ***Prerequisite: Successful completion of Algebra II***
- ***Course Length: One semester***
- ***Meets Graduation Requirements In: Math***
- ***Materials: None***

Calculus

This course provides a comprehensive survey of differential and integral calculus concepts, including limits, derivative and integral computation, linearization, Riemann sums, the fundamental theorem of calculus, and differential equations. Content is presented across ten units and covers various applications, including graph analysis, linear motion, average value, area, volume, and growth and decay models. In this course, students use an online textbook, which supplements the instruction they receive and provides additional opportunities to practice using the content they've learned.

- ***Prerequisite: Pre-Calculus and Trigonometry***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Math***
- ***Materials: Texas Instruments T1-84 Plus graphing calculator (provided by student)***

MAT1340 - College Algebra NORTHEASTERN

We have the exciting opportunity to partner with Northeastern Jr. College and offer our students in-house College Algebra (MAT121). This course highlights connections between mathematics and the society in which we live. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics.

- ***Prerequisite: Completion of Algebra 2 with an A or B and teacher recommendation AND 590 or better on math portion of SAT,or 245 or higher on NexGen Accuplacer (NGAF section)***
- ***Course Length: One semester- fall only***
- ***Meets Graduation Requirements In: Math***
- ***Materials: College Algebra 2rd Edition by Miller and Gerken with Connect Math. The e-book and homework is accessed the student's NJC D2L account.***

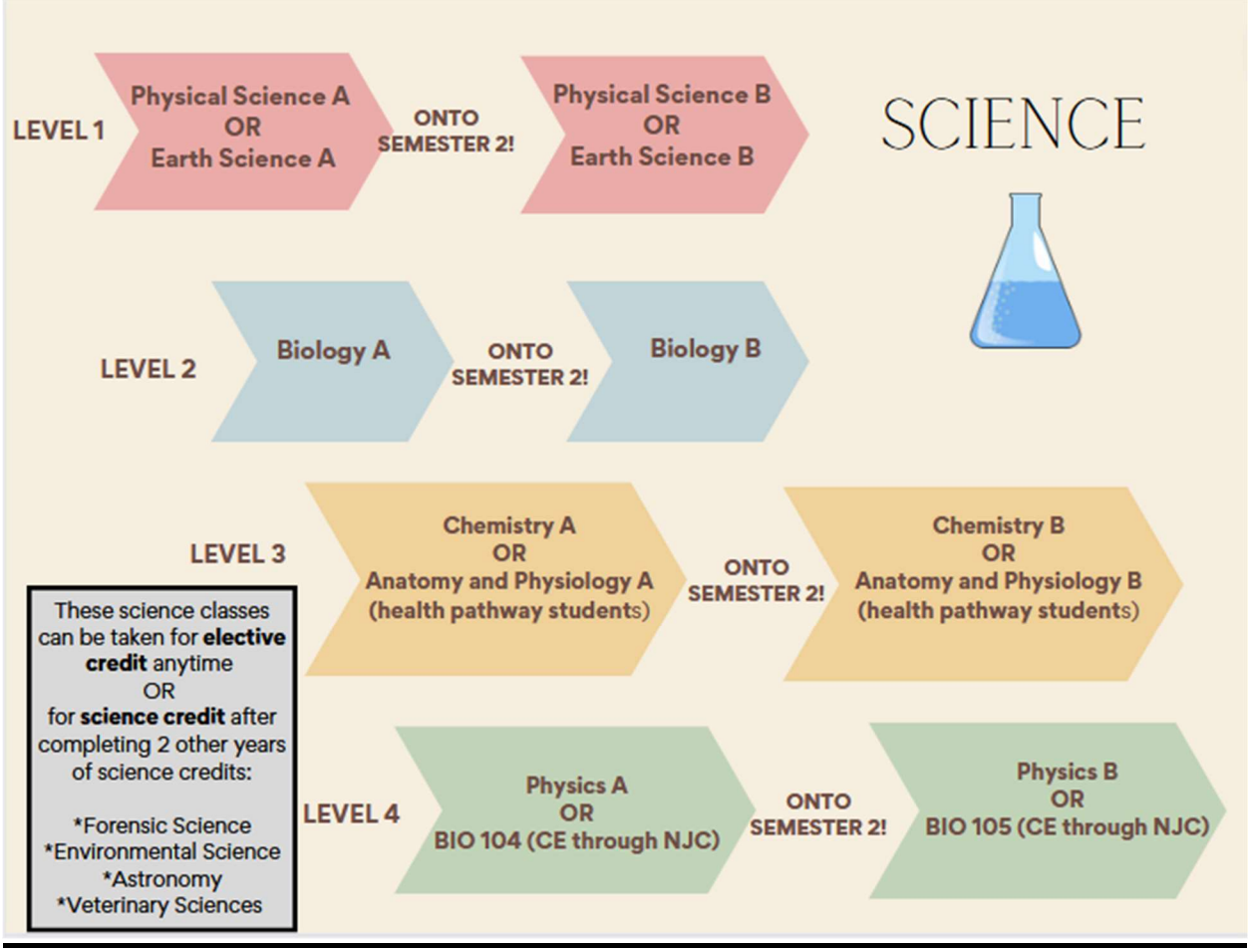
MAT 1260 - Introduction to Statistics NORTHEASTERN

This course is a concurrent enrollment course offering the student college credit through Northeastern Junior College (MAT135). Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature.

- ***Prerequisite: Completion of Algebra 2 with an A or B and teacher recommendation AND 500 or better on math portion of SAT or 240 or higher on NexGen Accuplacer (NGQA section)***

- ***Course Length: One semester- spring only***
- ***Meets Graduation Requirements In: Math***
- ***Materials: TBD***

Science - Sequencing



Science - Course Descriptions

Physical Science

Students explore the relationship between matter and energy by investigating force and motion, the structure of atoms, the structure and properties of matter, chemical reactions, and the interactions of energy and matter. Students develop skills in measuring, solving problems,using laboratory apparatuses, following safety procedures, and adhering to experimental procedures. Students focus on inquiry-based learning, with both hands-on laboratory investigations and virtual laboratory experiences.

- ***Labs included***
- ***Prerequisite: None***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Science***
- ***Materials: Physical Science: A Laboratory Guide***
- ***Recommended Grade Level: 9th or 10th***

Earth Science

This course provides students with a comprehensive earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists
of in-depth online lessons, an associated reference book, collaborative activities, virtual laboratories, and hands-on laboratories students can conduct at home. The course prepares students for further studies in geology, meteorology, oceanography, and astronomy courses, and gives them practical experience in implementing scientific methods.

- ***Labs included***
- ***Prerequisite: None***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Science***
- ***Materials: Earth Science: A Reference Guide***
- ***Recommended Grade level: 9th or 10th***

Biology

In this comprehensive course, students investigate the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of in-depth online lessons, including extensive animations, an associated reference book, collaborative explorations, virtual laboratories, and hands-on laboratory experiments students can conduct at home.

- ***Labs included***
- ***Prerequisite: Earth or Physical Science***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Science***
- ***Materials: Biology: A Reference Guide***
- ***Recommended Grade level: 10th-12th***

Chemistry

This comprehensive course gives students a solid basis to move on to future studies. The course provides an in depth survey of all key areas, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry. The course includes direct online instruction, virtual and hands-on laboratories, and related assessments, used with a problem solving book.

- ***Labs included***
- ***Prerequisite: Completion of sophomore science class and student must have completed or be co-enrolled in Algebra II***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Science***
- ***Materials: Chemistry: Problems and Solutions***
- ***Recommended Grade Level: 11th or 12th***

Physics

This course provides a comprehensive survey of all key areas: physical systems, measurement, kinematics, dynamics, momentum, energy, thermodynamics, waves, electricity, and magnetism, and introduces students to modern physics topics such as quantum theory and the atomic nucleus. The course gives students a solid basis to move on to more advanced courses later in their academic careers. The program consists of online instruction, virtual and hands on laboratories, and related assessments, plus an associated problem-solving book.

- ***Labs included***
- ***Prerequisite: Pre Calc/Trigonometry completed***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Science***
- ***Materials: Physics: Problems and Solutions. Additionally, some activities require ordinary household items, such as rulers, meter sticks, balls or marbles, string, paper, and pencils***
- ***Recommended Grade Level: 11th or 12th***

Environmental Science

Environmental Science is a multidisciplinary field that draws from the physical sciences in addition to other fields. This course teaches the connection between all living organisms within an ecosystem through hands-on field and case studies using the scientific method. This course helps students better understand the impact humans have on the world around them and ways in which individuals can influence the environment through their actions. Environmental Science explains the concept of biome as a region defined by a specific climate, plant life, and animal community. Content highlights the critical value of clean water, the impact of pollution, agricultural and population issues, and various types of existing and future energy resources and technologies.

- ***Prerequisite: Completion of 2 years of high school science. Physical Science is highly recommended.***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Science***
- ***Recommended Grade Level: 11th or 12th (10th with teacher approval)***

Forensic Science

Students will survey key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and the law and courtroom procedures from the perspective of the forensic scientist. Through online lessons, virtual and hands-on labs, and analysis of fictional and true crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions.

- ***Labs included***
- ***Prerequisite: Completion of 2 years of high school science, one of which must be Biology. Chemistry is highly recommended.***
- ***Course Length: One semester***
- ***Meets Graduation Requirements In: Science***
- ***Materials: Some activities require ordinary household items, such as digital camera or camera phone, rulers, meter sticks, balls or marbles, string, paper, graph paper, and pencils***
- ***Recommended Grade Level: 11th or 12th***

Astronomy

Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and the universe. This course introduces students to the study of astronomy, including its history and development; basic scientific laws of motion and gravity; the concepts and tools of modern astronomy; and the methods used by astronomers to learn more about the universe. Additional topics include: origin and fate of the universe, the Milky Way and other galaxies; and the sun and stars. Using online tools, students examine the life cycle of stars; the properties of black holes, and the exploration of space and careers.

- ***Prerequisite: 2 years of other science credits, concurrently with another science course OR counselor approval***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Science***
- ***Recommended Grade Level: 11th or 12th***

Principles of Animal and Veterinary Science A

This course examines some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases affect not only the animals around us but at times, us humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues are studied and applied.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements in: Electives and Science***
- ***Recommended Grade Level: 11th or 12th***

Anatomy and Physiology A and B

Students will receive a thorough introduction to the basics required for the study of the human body and how it functions. Students will gain a general introduction to life functions, the terminology, and phonetic pronunciations used to describe body parts and their locations, as well as an overall review of human development and body processes. This course also includes infection control and standard precautions, which emphasizes the importance of maintaining health and safety in the healthcare work environment, as well as highlights the latest practices and protocols.

- ***Prerequisite: Completion of Biology***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Science***
- ***Recommended Grade Level: 11th or 12th***

BIO 104 - Biology: A Human Approach

This course is a concurrent enrollment course offering the student 4 college credits through Northeastern Junior College (BIO104). Develops a basic knowledge of the structure and function of the human body by studying the structure as a series of interrelated systems. Includes cardiovascular, respiratory, digestive, lymphatic, musculoskeletal, nervous, endocrine, reproductive and urinary systems, and genetics. Emphasizes disease prevention and wellness. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

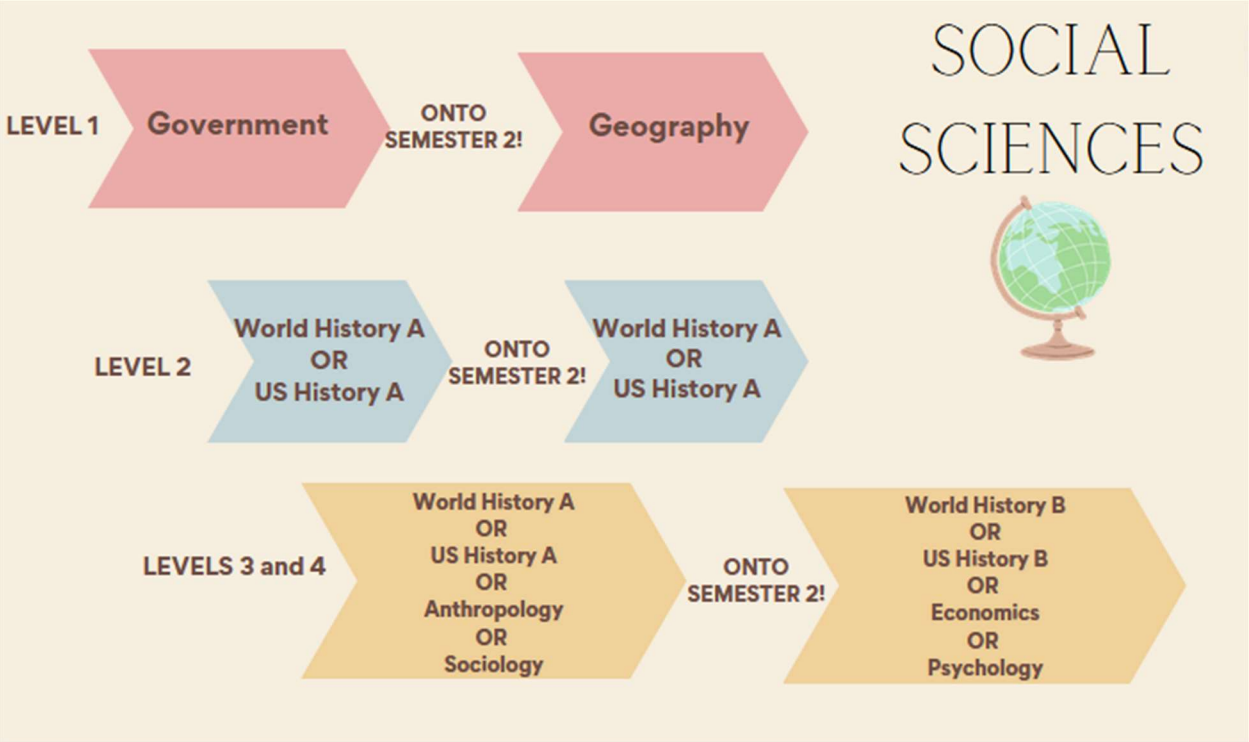
- ***Prerequisite: Completion of High School Biology with a B or better and teacher recommendation***
- ***Course Length: One semester- Fall only***
- ***Meets Graduation Requirements In: Science***
- ***Materials: TBD***

BIO 105 - Science of Biology with Lab

This course is a concurrent enrollment course offering the student 4 college credits through Northeastern Junior College (BIO105). Examines the basis of biology in the modern world and surveys the current knowledge and conceptual framework of the discipline. Explores biology as a science - a process of gaining new knowledge - as well as the impact of biological science on society. Includes laboratory experiences.

- ***Prerequisite: Completion of High School Biology with a B or better and teacher recommendation***
- ***Course Length: One semester- spring only***
- ***Meets Graduation Requirements In: Science***
- ***Materials: TBD***

Social Sciences - Sequencing



Social Sciences - Course Descriptions

Geography

This course explores world geography on a region-by-region basis and covers a broad range of geographical perspectives. Each unit covers one continent or other major geographical region of the world. Units include North America, Central America, South America, Western Europe. Students first learn about each region's landforms, climate, and population. They then examine that region's cultural, economic, and political institutions. Each unit is presented in a parallel format to facilitate interregional comparisons and allow students more clearly to see the similarities and differences between the regions.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Social Studies***
- ***Materials: Students will need to download Google Earth.***

American Government

This course studies the history, organization, and functions of the United States government. Beginning with the Declaration of Independence and continuing through to the present day, students explore the relationship between individual Americans and our governing bodies. Students take a close look at the political culture of our country and gain insight into the challenges faced by citizens, elected government officials, political activists, and others. Students also learn about the roles of political parties, interest groups, the media, and the Supreme Court, and discuss their own views on current political issues.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Social Studies***

World History

In this comprehensive survey of world history from prehistoric to modern times, students focus in depth on the developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative. Online lessons and assessments complement World History: Our Human Story, a textbook written and published by K12. Students are challenged to consider topics in depth as they analyze primary sources and maps, create timelines, and complete other projects—practicing historical thinking and writing skills as they explore the broad themes and big ideas of human history.

- ***Prerequisite: None***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Social Studies***
- ***Materials: World History: Our Human Story***

US History

This course is a full-year survey that provides students with a comprehensive view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K12's The American Odyssey: A History of the United States. Online lessons help students organize their study, explore topics in depth, review in preparation for assessments, and practice skills of historical

thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

- ***Prerequisite: None***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Social Studies***
- ***Materials: The American Odyssey: A History of the United States***

Anthropology

Anthropologists research the characteristics and origins of the cultural, social, and physical development of humans and consider why some cultures change and others come to an end. In this course, students are introduced to the five main branches of anthropology: physical, cultural, linguistic, social, and archeological. Through instruction and their own investigation and analysis, students explore these topics, considering their relationship to other social sciences such as history, geography, sociology, economics, political science, and psychology. Emulating professional anthropologists, students apply their knowledge and observational skills to the real-life study of cultures in the United States and around the world. The content in this course meets or exceeds the standards of the National Council for the Social Studies (NCSS).

- ***Prerequisite: To take for social studies credit, student should already have taken Government/Geography and World History or US History***
- ***Course Length: One semester***
- ***Meets Graduation Requirements In: Social Studies***

Economics

Students are introduced to the basics of economic principles, and they will learn the importance of understanding different economic systems. They will also investigate how to think like an economist. Students will explore different economic systems, including the American Free Enterprise System, and they will analyze and interpret data to understand the laws of supply and demand. Students will also be presented with economic applications in today's world. From economics in the world of business, money, banking, and finance, students will see how economics is applied both domestically and globally. Students will also study how the government is involved in establishing economic stability in the American Free Enterprise System as well as how the U.S. economy has a global impact.

- ***Prerequisite: To take for social studies credit, student should already have taken Government/Geography and World History or US History***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Social Studies***
- ***Materials: None***

Sociology

Students will explore human relationships in society. Culture, social structure, the individual in society, institutions, and social inequality will be emphasized in this course.

- ***Prerequisite: To take for social studies credit, student should already have taken Government/Geography and World History or US History***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Social Studies***

Psychology

In this course, students investigate why human beings think and act the way they do. This is an introductory course that broadly covers several areas of psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Each unit introduces terminology, theories, and research that are critical to the understanding of psychology and includes tutorials and interactive exercises. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives. Unit topics in this one-semester course include

methods of study, biological basis for behavior, learning and memory, development and individual differences, and psychological disorders.

- ***Prerequisite: To take for social studies credit, student should already have taken Government/Geography and World History or US History***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements in: Social Studies***

Physical Education & Health - Course Descriptions

Health

This course focuses on important skills and knowledge in nutrition; physical activity; the dangers of substance use and abuse; injury prevention and safety; growth and development; and personal health, environmental conservation, and community health resources. The curriculum is designed around topics and situations that engage student discussion and motivate students to analyze internal and external influences on their health-related decisions. The course helps students build the skills they need to protect, enhance, and promote their own health and the health of others.Nutrition and Wellness

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Health/PE***

Physical Education

This course focuses on the fundamental components and principles of fitness. Students will examine safety guidelines, proper technique, and exercise principles such as FITT: Frequency (how often you exercise), Intensity (how hard you work during exercise), Time (how long you exercise), and Type (what type of activity you do). Students assess their current level of fitness in relation to the five components of physical fitness: flexibility, cardiovascular health, muscular strength, muscular endurance, and body composition. Students will be equipped with strategies to help them begin, design, and maintain an exercise program to keep them fit for life.

- ***Prerequisite: None***
- ***Course Length: Two Semesters (each semester may be taken as a standalone class based upon graduation needs)***
- ***Meets Graduation Requirements In: Health/PE***

Student Athlete

This course option allows students to get academic elective credit for your extracurricular athletic activities. Students must be on a team that lasts the entire semester and has a minimum of 5 hours per week on average spent in practice or competition. Students participating in this course option will be responsible for having a contract signed by their coach/supervisor within the first week of the semester. They will then be expected to send in weekly logs with descriptions of what they did each week. This course does not have any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Team participation***
- ***Course Length: One semester***
- ***Meets Graduation Requirements In: Health/PE***

Electives - Course descriptions

Fine Art

This course combines art history, appreciation, and analysis, while engaging students in hands-on creative projects. Lessons introduce major periods and movements in art history while focusing on masterworks and the intellectual, technical, and creative processes behind those works. Studio lessons provide opportunities for drawing, painting, sculpting, and other creative endeavors.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Interior Design

Do you have a flare for designing and decorating? If so, this course will show you how to turn your interests and skills into a career. From professionals who own their own business to those working within a larger company, interior designers do it all—from planning the color scheme to choosing furniture and light fixtures—with the end goal of creating a space where people can live or work comfortably, safely, and happily. You'll learn about color, texture, trends and styles over time, how homes are built, and "green" options for homes and businesses. Most importantly, you'll learn how to work with a client to meet their unique needs and style requirements. This course will help you to identify parts of interior design that are most interesting to you, helping you to chart the path for your future.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Life Skills

This course emphasizes defining personal values, goal setting and planning, and solving problems. Instructional material focuses on dealing with media and peer pressure, communication and relationships, working with others, avoiding and/or resolving conflict, decision making, wellness and personal safety, aspects of good citizenship, environmental awareness, and how students can contribute to their own community. The course is organized in six units including the course introduction, thinking about yourself, thinking for yourself, taking care of yourself, caring for your relationships, and caring about your world.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Finding Your Path- Grades 9-12

Course Overview- All students complete this year-long course each school year that specifically targets their unique concerns. School counselors guide students through an in-depth exploration of their interests, abilities, and skills. Students explore their education and career interests, define goals, and create a path through high school that will get them there. In addition, this course serves as a "home base" where students and school counselors can address topics that are critical to ensuring success in high school and beyond. Students spend 1 hour per week in live class connect sessions. During these sessions, they also work through the 7 Mindsets curriculum (social emotional support). Additionally, students work independently on a variety of assignments including: resume writing, Tallo account creation, researching their desired career fields, creation of personal growth goals, and much more!

- **Grades:** Pass/Fail- ½ elective credit per year
- ***Course Length: Full year- required***

Finding Your Path- Early Graduates only (finishing in December)

School counselors guide students through an in-depth exploration of their interests, abilities, and skills. Students explore their education and career interests, define goals, and create a path through high school that will get them there. In addition, this course serves as a "home base" where students and school counselors can address topics that are critical to ensuring success in high school and beyond. Students spend 1 hour per week in live class connect sessions. During these sessions, they also work through the 7 Mindsets curriculum (social emotional support). Additionally, students work independently on a variety of assignments including: resume writing, Tallo account creation, researching their desired career fields, creation of personal growth goals, and much more!

- **Grades:** Pass/Fail- ½ elective credit for fall semester

College and Career Readiness (CCR)- senior requirement

This is a required course for seniors who will need to meet the new Colorado Department of Education graduation requirements for college and career readiness. This course will enable the student to demonstrate how he or she met one of the listed requirements in each area (English and Math) to be eligible for graduation (in addition to the credit requirements).

- ***Prerequisite: Seniors only***
- ***Course Length: One Semester***

Performance Studio

This pass/fail course allows students to earn credit while they are working with a private instructor/director/teacher for a minimum of 5 hours per week on average in the performing arts (voice, instrument, theater, etc). Students must have a contract signed during the first week of instruction by this private instructor and then will be expected to submit weekly logs detailing their hours and what they are learning. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

*5 hours per week requirement can include a combination of lessons and practice.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Independent Study

This course provides the opportunity for students to study subject matter NOT available to them in the regular course offerings. Under the guidance of a sponsoring teacher or program, a student may apply for one independent study per semester. Students work independently according to a contractual agreement. Students must be capable of doing a minimum of 5 hours per week average of high quality work without the structure of a normal classroom setting. There is also a required end of semester cumulative project for the chosen topic. Independent study is not to be used as a substitute for courses already available to students. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Successful completion of 9th grade classes and teacher must approve all independent study project requests***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Spanish I

Students will focus on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension

activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

- ***Prerequisite: None - Students who have already completed Middle School Spanish I should enroll in this course. Students who have completed Middle School Spanish II should enroll in Spanish II.***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Electives***
- ***Materials: A speaker and microphone are necessary; a headset combination is recommended. Vox Everyday Spanish and English Dictionary or equivalent is recommended. Students must provide their own materials.***

Spanish II

Students will expand their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. By the second semester, the course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages)

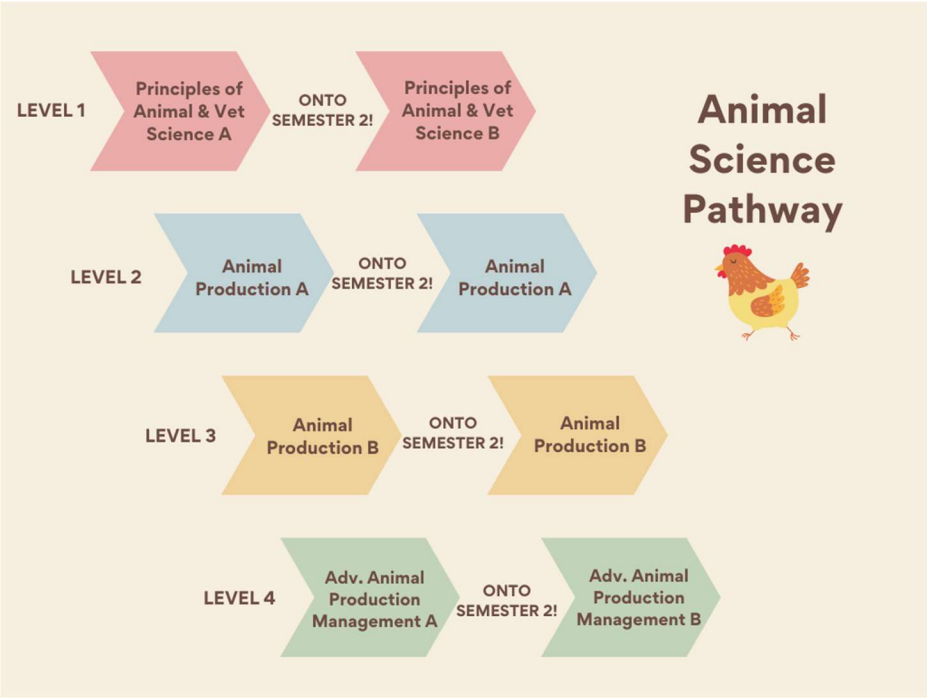
- ***Prerequisite: Spanish I - students who have already completed Middle School Spanish II should enroll in this course.***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Electives***
- ***Materials: A speaker and microphone are necessary; a headset combination is recommended. Vox Everyday Spanish and English Dictionary or equivalent is recommended. Students must provide their own materials.***

Spanish III

Students will focus on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in more formal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, read and analyze important pieces of Hispanic literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

- ***Prerequisite: Spanish II***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Electives***
- ***Materials: A speaker and microphone are necessary; a headset combination is recommended. Vox Everyday Spanish and English Dictionary or equivalent is recommended. Students must provide their own materials.***

Agriculture, Food & Natural Resources Program - Sequencing



Food Products & Processing Systems Pathway

LEVEL 1	Introduction to Agriculture A	ONTO SEMESTER 2!	Introduction to Agriculture B
LEVEL 2	Principles of Food Science A	ONTO SEMESTER 2!	Principles of Food Science B
LEVEL 3	Principles of Food Production A	ONTO SEMESTER 2!	Principles of Food Production B
LEVEL 4	Internship OR Work Experience	ONTO SEMESTER 2!	Internship OR Work Experience

Natural Resource & Environmental Systems Pathway

LEVEL 1	Introduction to Agriculture A	ONTO SEMESTER 2!	Introduction to Agriculture B
LEVEL 2	Introduction to Forestry & Natural Resources A	ONTO SEMESTER 2!	Introduction to Forestry & Natural Resources B
LEVEL 3	Wildlife, Fisheries & Ecology Management 1	ONTO SEMESTER 2!	Wildlife, Fisheries & Ecology Management 2
LEVEL 4	Internship OR Work Experience	ONTO SEMESTER 2!	Internship OR Work Experience

Agriculture, Food & Natural Resources - Course Descriptions

Introduction to Agriculture A

This course is a Project Based Learning course (PBL). This course is designed as an exploration of the agriculture career pathways. Students will get an introduction to agriculture careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of agribusiness and agriscience, as well as career options in each area. Students study the concepts of horticulture, natural resources, and livestock production, in addition to other common agriculture related functions. Students complete projects to develop a deeper understanding of the roles these agricultural functions play.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Introduction to Agriculture B

Science and technology are revolutionizing many areas of our lives, and agriculture is no exception! From aquaculture to genetic engineering, agriscience is finding new ways to better produce and manage plants, animals, and other natural resources. In Agriscience II, you'll build on your existing knowledge of plant and animal science and delve deeper into important areas such as soil science and weed management. You'll also explore research on plant and animal diseases as well as the insects and other pests that can impact agricultural enterprises and natural resources

- ***Prerequisite: Introduction to Agriculture A***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Principles of Animal and Vet Science A & B

This course examines some of the common diseases and treatments for domestic and exotic animals. Toxins, parasites, and infectious diseases affect not only the animals around us but at times, us humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues are studied and applied.

- ***Prerequisite: None***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements in: Pathway Electives***

Principles of Food Science A & B

This course is designed to enable students to explore the food technology industry. The course covers food preservation, packaging, and quality factors that contribute to the sustainability of the industry. In addition, the course covers how seafood, poultry, dairy, fruits and nuts, and vegetables are produced, classified, and graded to meet required guidelines. The role value-added and specialty products play in the retail market, as well as food math and measurements are also discussed.

- ***Prerequisite: Introduction to Agriculture B***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

Introduction to Forestry & Natural Resources A & B

This course is designed to enable students to explore various career opportunities within the Agriculture Cluster. The first part of this course covers ecological principles, environmental resources, habitat conservation, habitat management, and more. The second part of this course covers waterfowl identification, ecology, and conservation and management. In addition, the course covers subjects related to common diseases and parasites of wildlife, wildlife and habitat management, and hunting and fishing regulations. Aquaculture management, aquaculture plant and animal species, propagation of aquatic plants, nutrition of aquatic species, and marketing aquaculture products are also discussed.

- ***Prerequisite: None***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

Animal Production A & B

These courses in Livestock and Poultry cover basic animal science and livestock industry information as well as current issues in animal agriculture. The course includes information students should know about livestock and poultry animals for classroom study and beyond. The course is designed to provide students with a solid understanding of the anatomy, physiology, nutrition, feeding, and reproduction of multiple livestock and poultry breeds.

- ***Prerequisite: Introduction to Agriculture B***
- ***Course Length: Two Years***
- ***Meets Graduation Requirements In: Pathway Electives***

Principles of Food Production A & B

This course explores the foundations of the food industry, from nutrition and chemistry to processing and safety, and delves into some of the most pressing foodborne issues of our day. Discussions of current topics and trends center on genetically engineered foods, environmental concerns and sustainability, food needs of the world, the impacts of food on health, and more. Content also correlates with National Agricultural Education Standards and FFA Career Development Events (CDEs) to prepare students for meaningful careers in the critically important agriscience industry.

- ***Prerequisite: Introduction to Agriculture B OR Principles of Animal and Vet Science A***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

Wildlife, Fisheries & Ecology Management 1 & 2

This course is designed to enable students to explore various career opportunities within the Agriculture Cluster. The first part of this course covers ecological principles, environmental resources, habitat conservation, habitat management, and more. The second part of this course covers waterfowl identification, ecology, and conservation and management. In addition, the course covers subjects related to common diseases and parasites of wildlife, wildlife and habitat management, and hunting and fishing regulations. Aquaculture management, aquaculture plant and animal species, propagation of aquatic plants, nutrition of aquatic species, and marketing aquaculture products are also discussed.

- ***Prerequisite: None***
- ***Course Length: Two Semesters***

- ***Meets Graduation Requirements In: Pathway Electives***

Advanced Animal Production and Management A & B

These courses in Livestock and Poultry cover basic animal science and livestock industry information as well as current issues in animal agriculture. The course includes information students should know about livestock and poultry animals for classroom study and beyond. The course is designed to provide students with a solid understanding of the anatomy, physiology, nutrition, feeding, and reproduction of multiple livestock and poultry breeds.

- ***Prerequisite: Animal Production A and B***
- ***Course Length: One Year***
- ***Meets Graduation Requirements In: Pathway Electives***

CTE Internship

This pass/fail course provides the opportunity for students to earn elective high school credits if they are in an internship for 5 or more hours per week. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are in an internship for a minimum of 5 hours per week. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Successful completion of 9th grade classes and student must currently be maintaining an internship for a minimum of 5 hours per week***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

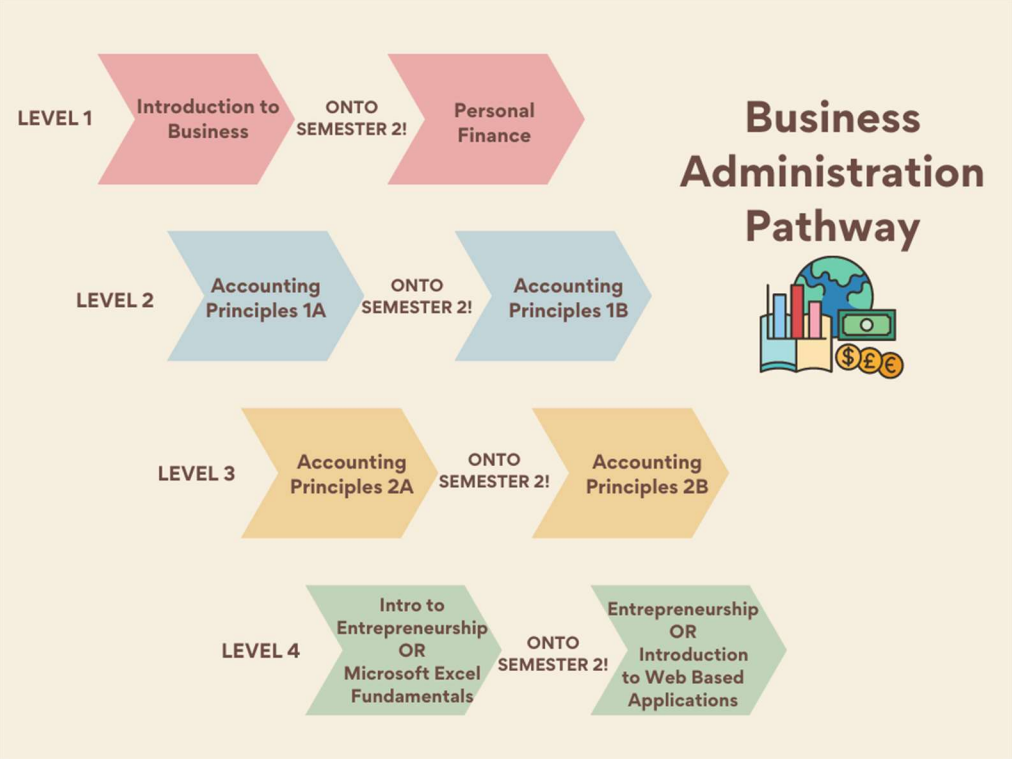
- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 5 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience - Full credit version

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 10 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Business Management Program - Sequencing



Business Management - Course Descriptions

Introduction to Business

This course provides complete instruction in business concepts and skills students need in today's competitive environment. This course offers extensive coverage in major business concepts, such as finance, marketing, operations, and management. Students gain valuable information and skills for the workplace, as well as preparation for success in competitive events, such as DECA.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Personal Finance

Understanding financial management concepts is an important life skill. Students will understand the consequences of their financial choices, from credit and debt to insurance, taxes, investments, and discretionary spending. Instructional material surveys typical personal financial needs and emphasizes the basics of budgeting. Through activities and projects with practical applications, students taking this course learn to better prepare for and secure their financial futures. Unit topics include money management (personal financial planning and checking), financial security (savings, investments, and risks), credit management, risk management, and taxes and employment forms.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Accounting Principles 1A and 1B

This year-long two-semester course teaches accounting while placing emphasis on conceptual understanding and financial statement analysis to encourage students to apply accounting concepts to real-world situations and make informed business decisions. Topics include transactions and methods of accounting for both service and merchandising businesses.

- ***Prerequisite: This is an 11th or 12th grade elective***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

Accounting Principles 2A and 2B

This yearlong two-semester course continues to teach accounting while placing emphasis on conceptual understanding and financial statement analysis to encourage students to apply accounting concepts to real-world situations. Topics include transactions and methods of accounting for service and merchandising businesses and an introduction to corporate accounting methods.

- ***Prerequisite: Accounting Principles 1A and 1B (General Accounting 1A and 1B)***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

Intro to Entrepreneurship

This course is a Project Based Learning course (PBL). In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to develop new business ideas, attract investors, market their business, and manage expenses.

- ***Prerequisites: Principles of Marketing A and B OR Accounting Principles 1 and 2***
- ***Course Length: One semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Entrepreneurship

This course is a Project Based Learning course (PBL). Students build on the business concepts they learned in Entrepreneurship I. Students continue to explore the different functions of business, while refining their technology and communication skills in speaking, writing, networking, negotiating, and listening. The purpose of this course is to prepare students to launch a small business venture.

- ***Prerequisite: Intro to Entrepreneurship (Entrepreneurship I)***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Microsoft Excel Fundamentals

This course is for students who wish to learn core skills in Microsoft Excel. Students work through projects to hone skills in data entry and management, formula creation, email management and a vast variety of commonly used email, spreadsheet, and database tools.
This course prepares students for the Microsoft Excel 2019 Associate certification.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Introduction to Web Based Applications

This training equips students with the skills they need to become productive with Google Workspace. By the end of this Specialization, the student will be proficient in the use of the core Google Workspace applications: Gmail, Google Calendar, Google Drive, Google Docs, Google Sheets, Google Slides, Google Meet and Google Chat. Students will learn how to manage mail and schedules effectively; create, manage and share content in Google Drive, and become more productive through the use of the collaboration features that are an integral and defining part of Google Workspace.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***
- ***System Requirements:*** *It is recommended that students engage with this content using a Chromebook, Windows, or Mac OS computer with Google Chrome installed, plus a managed Google Workspace account.*

CTE Internship

This pass/fail course provides the opportunity for students to earn elective high school credits if they are in an internship for 5 or more hours per week. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are in an internship for a minimum of 5 hours per week. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Successful completion of 9th grade classes and student must currently be maintaining an internship for a minimum of 5 hours per week***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 5 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience - Full credit version

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 10 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Criminal Justice & Public Safety Program - Sequencing

Criminal Justice & Public Safety - Course Descriptions

Careers in Criminal Justice 1

This course is a Project Based Learning course (PBL).In this course, students will explore different areas of the criminal justice system, including the trial process, the juvenile justice system, and the correctional system. Careers in each area will be explored, and students will learn more about the expectations and training required for various career options in the criminal justice field.

- ***Prerequisite: None***
- ***Course Length: One semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Careers in Criminal Justice 2

This course is a Project Based Learning course (PBL). In this course, students will explore different areas of the criminal justice system, including the trial process, the juvenile justice system, and the

correctional system. Careers in each area will be explored, and students will learn more about the expectations and training required for various career options in the criminal justice field.

- ***Prerequisite: Careers in Criminal Justice 1 - Students MUST pass this course in order to move on to Careers in Criminal Justice 2***
- ***Course Length: One semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Sociology

Students will explore human relationships in society. Culture, social structure, the individual in society, institutions, and social inequality will be emphasized in this course.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***
- ***Materials: Sociology: Study of Human Relationships, by W. LaVerne Thomas (will be provided by K12)***

Psychology

Students will investigate why human beings think and act the way they do. This course broadly covers several areas of psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Each unit introduces terminology, theories, and research that are critical to the understanding of psychology and includes tutorials and interactive exercises. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives. Unit topics include methods of study, biological basis for behavior, learning and memory, development and individual differences, and psychological disorders.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Forensic Science

Students will survey key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and the law and courtroom procedures from the perspective of the forensic scientist. Through online lessons, virtual and hands-on labs, and analysis of fictional crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions.

- ***Labs included***
- ***Prerequisite: Completion of 2 years of high school science, one of which must be Biology. Chemistry is highly recommended.***
- ***Course Length: One semester***
- ***Meets Graduation Requirements In: Pathway Electives***
- ***Materials: Some activities require ordinary household items, such as digital camera or camera phone, rulers, meter sticks, balls or marbles, string, paper, graph paper, and pencils***
- ***Recommended Grade Level: 11th or 12th***

Criminology

This course is a Project Based Learning course (PBL). In the modern world, many citizens share a concern about criminal behaviors and intent. This course introduces students to the field of criminology, the study of crime. Students look at possible explanations for crime from psychological, biological, and sociological perspectives; explore the categories and social consequences of crime; and investigate how the criminal justice system handles criminals and their misdeeds. The course explores some key questions: Why do some individuals commit crimes while others do not? What aspects of culture and society promote crime? Why are different punishments given for the same crime? What factors—from arrest to punishment—help shape the criminal case process?

**ClassConnect attendance is vital to success in PBL classes and is an expectation.*

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

CRJ110 - Introduction to Criminal Justice NORTHEASTERN

This course introduces a study of the agencies and processes involved in the criminal justice system: the legislature, the police, the prosecutor, the public defender, the courts, and corrections. Includes an analysis of the roles and problems of the criminal justice system in a democratic society, with an emphasis upon inter-component relations and checks and balances. This course is a concurrent enrollment course, offering the student college credit through Northeastern Junior College (CRJ110).

- ***Prerequisite: Careers in Criminal Justice 1 and 2 OR Teacher Recommendation***
- ***Course Length: One Semester - Fall***
- ***Meets Graduation Requirements In: Pathway Elective***

CTE Internship

This pass/fail course provides the opportunity for students to earn elective high school credits if they are in an internship for 5 or more hours per week. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are in an internship for a minimum of 5 hours per week. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Successful completion of 9th grade classes and student must currently be maintaining an internship for a minimum of 5 hours per week***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 5 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience - Full credit version

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 10 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Education & Training Program - Sequencing

Education & Training - Course Descriptions

Education and Training Explorations

This course exposes students to the realities of teaching while inspiring and welcoming them to a rewarding, high-impact career. Students reflect on the satisfaction and problems of teaching. Course content includes a balanced look at accountability issues such as standards, high-stakes testing and reform. Other topics include technology, cheating, bullying, sexual harassment and homophobia, diversity, vouchers, and legal issues.

- **Prerequisite: None**
- **Course Length: One Semester**
- **Meets Graduation Requirements in: Pathway Electives**
- **Materials: None**

Psychology

In this course, students investigate why human beings think and act the way they do. This is an introductory course that broadly covers several areas of psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Each unit introduces terminology, theories, and research that are critical to the understanding of psychology and includes tutorials and interactive exercises. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives. Unit topics in this one-semester course include methods of study, biological basis for behavior, learning and memory, development and individual differences, and psychological disorders.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements in: Pathway Electives***
- ***Materials: None***

Understanding Child Development

This course introduces students to the unique qualities of young children from infants to age eight, and demonstrates how to work with each child in ways that correspond with their developmental level, and their social and cultural environment. The course includes learning theories and research as well as information about the importance of play and technology in a young child's learning process. Other topics covered include readiness, assessment, working with children and families from diverse cultures, working with children with special needs, and the early stages of reading, writing, and general cognitive development.

- **Prerequisite: Introduction to Teaching**
- **Course Length: One Semester**
- **Meets Graduation Requirements in: Pathway Electives**
- **Materials: None**

Early Childhood Education

Children experience enormous changes in the first few years of their lives. They learn to walk, talk, run, jump, read, and write,among other milestones. Caregivers can help infants, toddlers, and children grow and develop in positive ways. This course is for students who want to influence the most important years of human development. In the course, students learn how to create fun and educational environments for children; how to keep the environment safe for children; and how to encourage the health and well-being of infants, toddlers, and school-aged children.

- **Prerequisite: Introduction to Teaching, Understanding Child Development**
- **Course Length: One Semester**
- **Meets Graduation Requirements in: Pathway Electives**
- **Materials: None**

Educator Capstone

This semester or year long course culminates the Education & Training Pathway by having the student engage in work-based learning experiences. There are two routes a student can take in this course: 1) General Educator Capstone and 2) Teacher Aide/Internship. Students must be in the 11th or 12th grade to enroll in this course.

- **Prerequisite: Early Childhood Education**
- **Course Length: One Semester or year long**
- **Meets Graduation Requirements in: Pathway Electives and can also meet career/college readiness graduation requirement**

CTE Internship

This pass/fail course provides the opportunity for students to earn elective high school credits if they are in an internship for 5 or more hours per week. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are in an internship for a minimum of 5 hours per week. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Successful completion of 9th grade classes and student must currently be maintaining an internship for a minimum of 5 hours per week***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

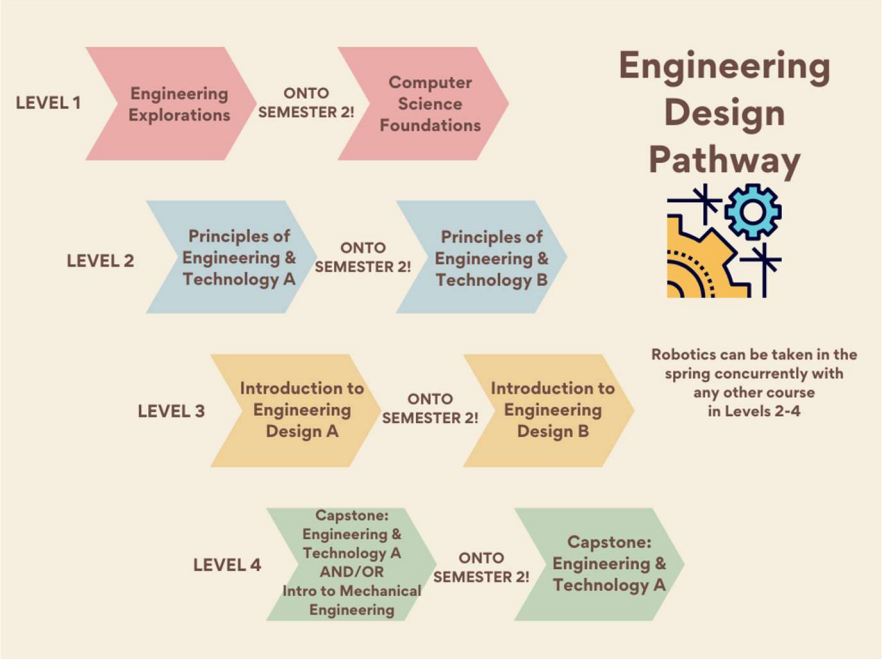
- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 5 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience - Full credit version

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 10 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Engineering & Technology Program - Sequencing



Engineering & Technology - Course Descriptions

Engineering Explorations

Each day, we are surrounded by technology and engineering projects. From our phones in our pocket to the bridges we drive over, engineering and technology influence many parts of our lives. In Engineering Explorations, you will learn more about engineering and technology careers and what skills and knowledge you'll need to succeed in these fields. Engineering Explorations will also help you understand the emerging issues in this exciting career field.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

PBL Computer Science Foundations

Computer Science Foundations A CO is a CodeHS course that introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. The course utilizes a project-based learning approach. With a unique focus on creative problem solving and real-world applications, the CodeHS Computer Science Principles course gives students the opportunity to explore several important topics of computing using their own ideas and creativity, use the power of computing to create artifacts of personal value, and develop an interest in computer science that will foster further endeavors in the field.

- ***Prerequisite: Engineering Explorations or IT Explorations or Teacher Recommendation***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Principles of Engineering and Technology A

Discover how technology has changed the world around us by pursuing technological solutions to everyday problems. While using scientific and engineering methods, learn how electricity,

electronic systems, magnets, and circuits work. Understand the design process and bring your ideas to life. Explore how engineering advances your ideas and the world!

- ***Prerequisite: Engineering Explorations or Teacher Recommendation***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Principles of Engineering and Technology B

Do you like to invite solutions to solve problems? Principles of Engineering B explores teamwork, energy, transportation, health and genetics, alternative energy, food packaging, etc. Explore various inventions and solutions that have solved problems across industries. Examine how artificial intelligence and technology are making an impact on breakthroughs. Evaluate the range of robotic and STEM-related career options available for you to make a difference in lives with *your* contributions and innovations.

- ***Prerequisite: Principles of Engineering and Technology A or Teacher Recommendation***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Introduction to Engineering Design A

This is the first course in a 2-course series. In this course students learn about basic engineering drawing concepts. Students will learn about basic CAD concepts and will practice with an online-based CAD program. They will learn the basic concepts surrounding CAD and 3D Printing.

- ***Prerequisite: Principles of Engineering and Technology A & B or Teacher Recommendation***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Introduction to Engineering Design B

This is the second course in a 2-course series. In this course students learn more about basic engineering drawing concepts. Students will learn about basic CAD concepts and will practice with an online-based CAD program. They will learn the basic concepts surrounding CAD and 3D Printing. This course includes two 3D printing projects. The second project is a quarter-long design project that takes students through the engineering design process and culminates with a 3D print of their design, and a presentation of their project to their peers.

- ***Prerequisite: Introduction to Engineering Design A***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Introduction to Mechanical Engineering

This course introduces students to the field of mechanical engineering and helps them develop an appreciation for how engineers design hardware that builds and improves societies around the world. The course covers topics such as technical problem-solving skills, design, engineering analysis, laminar and turbulent fluid flow, mechanics of materials, energy conversion, electric power generation, gear design, and modern technology to provide a solid mechanical engineering foundation students need for future success in college engineering courses. An additional design and building project (mousetrap car) has been added to the course.

- ***Prerequisite: Introduction to Engineering Design A and B***

Physics and Pre-Calc/Trig Strongly Recommended
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Capstone: Engineering & Technology A

This semester or year-long course culminates in the Engineering Program by having the student engage in work-based learning experiences resulting in the completion of Engineering work experience or an Engineering Internship; through an Engineering Passion Project; or through attainment of an industry-recognized certification.

- ***Prerequisite: Principles of Engineering and Technology A & B, Introduction to Engineering Design A & B, or Teacher Recommendation***
- ***Meets Graduation Requirements In: Pathway Electives***

Robotics

Are you fascinated with how machines work? Robots are machines, and they are all around us, from helping doctors in surgeries to helping to keep our homes clean. Explore the basic physics used to develop robots. Find out about the education needed to enter this high-demand field. Learn how models are created and build and program a robot model kit in various configurations.

- ***Prerequisite: Engineering Explorations or IT Explorations and Principles of Engineering A or Teacher Recommendation***
  Physical Science Recommended
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

CTE Internship

This pass/fail course provides the opportunity for students to earn elective high school credits if they are in an internship for 5 or more hours per week. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are in an internship for a minimum of 5 hours per week. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Successful completion of 9th grade classes and student must currently be maintaining an internship for a minimum of 5 hours per week***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 5 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience - Full credit version

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 10 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

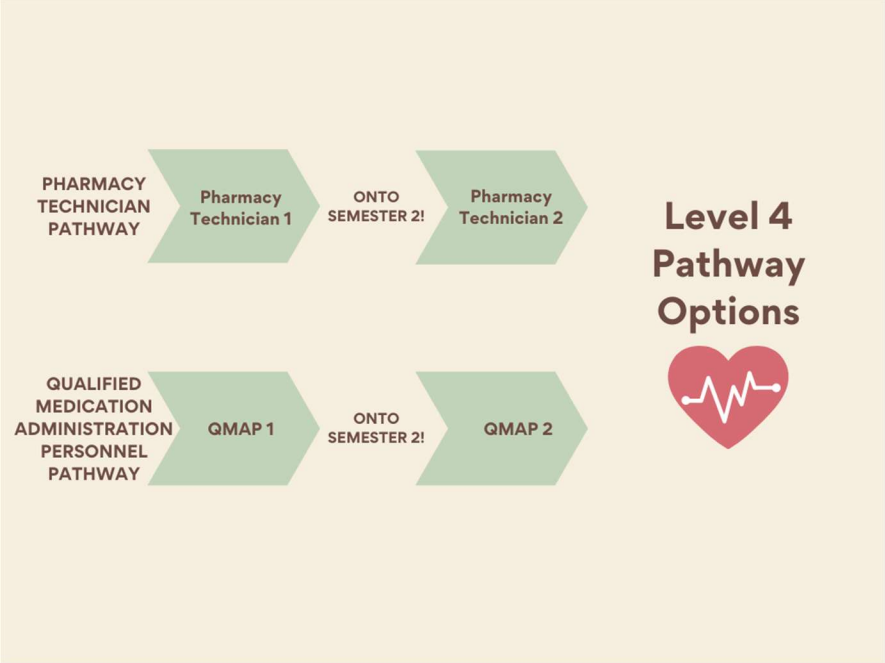
Health Science Program - Sequencing

Health Science Pathways

LEVEL 1	Intro to Health Science A OR Intro to Health Science B	ONTO SEMESTER 2!	Human Nutrition for Health Science
LEVEL 2-3	Medical Terminology A AND/OR Anatomy & Physiology A	ONTO SEMESTER 2!	Medical Terminology B AND/OR Anatomy & Physiology B
LEVEL 3	See Options Below		
LEVEL 4	See Options Below		

Level 3 Pathway Options

MEDICAL ASSISTANT PATHWAY	Medical Assistant 1	ONTO SEMESTER 2!	Medical Assistant 2
NURSE ASSISTANT PATHWAY	Nursing Assistant 1	ONTO SEMESTER 2!	Nursing Assistant 2
SPORTS MEDICINE PATHWAY	Sports Medicine *(CE)*	ONTO SEMESTER 2!	Care/Prev of Athletic Injuries *(CE)*
PHLEBOTOMY & EKG PATHWAY	Phlebotomy	ONTO SEMESTER 2!	EKG
EMERGENCY MEDICAL TECHNICIAN PATHWAY	Emergency Medical Dispatch A	ONTO SEMESTER 2!	Emergency Medical Dispatch B



Health Science - Course Descriptions

Introduction to Health Science A

This course is a Project Based Learning course (PBL). This course is designed as an exploration of the healthcare career pathways. Students will get an introduction to healthcare careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of healthcare, as well as career options in each area. Students study the concepts of disease prevention, personal health management, and social work, in addition to other common health related functions. Students complete projects to develop a deeper understanding of the roles these healthcare functions play.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Introduction to Health Science B

Challenging. Variable. Rewarding. These three words can be used to describe many careers in the health sciences. In this course, you will learn more about what it takes to be a successful health science professional, including how to communicate with patients. You'll explore the rights and responsibilities of both patients and health science professionals in patient care and learn more about how to promote wellness among patients and health care staff. Finally, you'll learn more about safety in health science settings and the challenges and procedures of emergency care, infection control, and bloodborne pathogens.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Human Nutrition for Health Science

This one-semester elective course provides students with an overview of good nutrition principles that are necessary for physical and mental wellness and a long, healthy life. Instructional materials include discussions of digestion, basic nutrients, weight management, sports and fitness, and lifespan nutrition. The Nutrition and Wellness course emphasizes an understanding of today's food and eating trends and gives students the capacity to intelligently evaluate all available sources of nutrition information and make informed decisions.

The course is organized in six units: Course Introduction; Wellness and Food Choices in Today's World; Digestion and Major Nutrients; Body Size and Weight Management; Physical Fitness, Sports Nutrition, and Stress; and Life Cycle Nutrition.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Medical Terminology A and B

This course is designed for the dedicated healthcare student and covers the process of learning hundreds of complex medical terms. The course helps students understand specialties, pathology, diagnostic techniques, and treatment procedures. The course includes critical thinking exercise scenarios that involve patients and pathology so students can apply their knowledge to the real world.

- ***Prerequisite: None***
- ***Course Length: One Year***
- ***Meets Graduation Requirements In: Pathway Electives***

Anatomy and Physiology A and B

Students will receive a thorough introduction to the basics required for the study of the human body and how it functions. Students will gain a general introduction to life functions, the terminology, and phonetic pronunciations used to describe body parts and their locations, as well as an overall review of human development and body processes. This course also includes infection control and standard precautions, which emphasizes the importance of maintaining health and safety in the healthcare work environment, as well as highlights the latest practices and protocols.

- ***Prerequisite: Completion of 2 years of high school science, one of which must be Biology.***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

Emergency Medical Dispatch (EMD) A and B

The EMD course will provide students with the skills and knowledge necessary to effectively dispatch resources of medical emergencies as public safety telecommunicators. This course primarily focuses on productivity in obtaining information from callers, selecting the proper protocol, dispatching proper resources, and giving telephone medical instructions. Other areas of significance are the basic philosophy of EMD, legal concepts important to medical content of emergency medical dispatch. This class would be excellent for any student interested in EMT, Nursing, Medical Assisting, ER Interest, Paramedic, or Dispatcher. This course prepares students to sit for the EMD Certification exam.

- ***Prerequisite: Completion of Medical Terminology, and Anatomy and Physiology A & B OR teacher recommendation***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

Medical Assistant 1 and 2

These courses help students develop the knowledge base, skills, and behaviors that entry-level medical assistants need to succeed. Students are introduced to anatomy and physiology, diagnostic tests, diseases and disorders, treatments, and nutrition, as well as personal growth

topics such as professionalism, teamwork, and time management. They learn all the key functions of medical assistants, such as business communications, patient record maintenance, medical insurance and coding, billing, clinical and laboratory procedures, and specialty examinations and procedures. Optional materials: To complete lab practicums (optional), students will need access to a standard clinical lab with common furniture, fixtures, tools, equipment, and disposable and consumable materials. For a comprehensive list of equipment and materials, please contact a K12 instructor or representative.

- ***Prerequisite: Completion of Medical Terminology, and Anatomy and Physiology A & B***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Pathway Elective***

Nursing Assistant with 1 and 2

These courses prepare nursing assistants for meaningful careers in acute care, long-term care, and home health. Students learn more than 150 procedures, including key skills in patient handling and transfers, wound care, communication, safety, and record keeping. Students also learn about infection control, safety, culture, working with difficult patients, OSHA, communication, age-appropriate care, and legal considerations. Optional materials: To complete lab practicums (optional), students will need access to a standard clinical lab with common furniture, fixtures, tools, equipment, and disposable and consumable materials. For a comprehensive list of equipment and materials, please contact a K12 instructor or representative.

- ***Prerequisite: Completion of Medical Terminology, and Anatomy and Physiology A & B OR teacher recommendation***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

HPE102 - Sports Medicine NORTHEASTERN

These courses introduce students to essential skills in sports medicine including fitness assessment, conditioning, emergency preparedness, injury management, therapeutic modalities, nutrition, and ethical and legal considerations. Students explore careers in fitness instruction, athletic training, exercise physiology, sports management, and physical therapy. Students also study essential skills in Sports Medicine including fitness assessment, conditioning, emergency preparedness, injury management, therapeutic modalities, nutrition, and ethical and legal considerations. Students explore careers in fitness instruction, athletic training, exercise physiology, sports management, and physical therapy. This course can be taken as a concurrent enrollment course offering the student college credit through Northeastern Junior College (HPE102).

- ***Prerequisite: Completion of Medical Terminology, and Anatomy and Physiology A & B***
- ***Course Length: One semester - Fall only***
- ***Materials: Principles of Athletic Training 15th Ed. ISBN – 978-0-07-352379-6***

HPE231 - Care and Prevention of Athletic Injuries NORTHEASTERN

Focuses on techniques in prevention, care and basic rehabilitation of athletic injury. This course is a concurrent enrollment course offering the student college credit through Northeastern Junior College (HPE231).

- ***Prerequisite: Completion of Medical Terminology, and Anatomy and Physiology A & B***
- ***Course Length: One semester - Spring Only***
- ***Meets Graduation Requirements In: Pathway Elective***

- ***Materials: Principles of Athletic Training: A Guide to Evidence-Based Clinical Practice ISBN: 978-1260241051***

Pharmacy Technician 1 and 2

This course is designed to help give students the knowledge and skills needed to work with a licensed pharmacist in a variety of clinical and retail settings. Students explore medical and pharmaceutical terminology, pharmaceutical calculations, pharmaceutical techniques, sterile compounding, pharmacy recordkeeping, and pharmacy law and ethics. Students also examine essential medical topics such as body systems, common diseases and conditions, microbiology, and medication errors.

- ***Prerequisite: Completion of Medical Terminology, and Anatomy and Physiology A & B***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Pathway Elective***
- ***Certification Requirements: Upon completion of Pharmacy Technician 1 and 2 in your Senior year, you will be able to sit for the Certified Pharmacy Technician Exam (ExCPT). In Colorado, it is required to have your High School Diploma or GED as well as be 18 years of age or older to be employed as a certified Pharmacy Technician. The certification exam is $129. This cost is covered by your school. However, if you do not pass the exam, you will be required to pay to take the exam again.***

Phlebotomy

Phlebotomy is a comprehensive course with insight and focus on specimen collection for diagnostic testing in the healthcare facility, providing foundational knowledge required of an allied healthcare professional. There is an emphasis on infection control, safety, communication skills, patient care and preparation, venipuncture equipment and supplies, specimen collection, handling, transport and processing. Provided simulations will allow students to practice key phlebotomy skills performed in a medical facility. This course prepares students to sit for the Certified Phlebotomy Technician exam.

- ***Prerequisite: Completion of Medical Terminology A & B and Anatomy and Physiology A & B***
- ***Course Length: One semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Electrocardiography

Electrocardiography is a comprehensive course with insight and focus on diagnostic cardiac testing in the healthcare facility, providing foundational knowledge required of an allied healthcare professional. Lessons include the fundamentals of electrocardiogram performance, Holter monitor application, and assistance with stress testing. An emphasis is placed on cardiac arrhythmias. Patient care, preparation and monitoring are addressed along with standard precautions and the Occupational Safety and Health Administration (OSHA). Provided simulations will allow students to practice key electrocardiography skills performed in a medical facility. This course prepares students to sit for the Certified EKG Technician exam.

- ***Prerequisite: Completion of Medical Terminology A & B and Anatomy and Physiology A & B***

- ***Course Length: One semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Qualified Medication Administration Personnel (QMAP) 1 and 2

A qualified medication administration person (QMAP) is an unlicensed individual who has passed a test and can administer medication in certain settings in the state of Colorado. A QMAP is at least 18 years old and has duties related to medication and patient care. They understand medication policies, secure and organize medication and make official reports to physicians. They work closely with the patients, so good communication skills are important. A registered QMAP may only be employed at certain locations or under certain conditions, determined by the Colorado Department of Public Health and Environment. This class would be good for any student who desires a job in medication administration. This class would also be beneficial to any student with an interest in becoming a Nurse, EMT, CMA, Physician Assistant, Nurse Practitioner, Medical Doctor, Pharmacist, Pharmacy Tech, Child Care, Nurse Anesthetist, Dentist, and any other career in the medical field.

- ***Prerequisite: Completion of Medical Terminology A & B and Anatomy and Physiology A & B***
- ***Course Length: Two semesters***
- ***Meets Graduation Requirements In: Pathway Electives***
- ***Certification Requirements: This class is for Seniors or students who will turn age 18 by the end of the school year. Students are required to be 18 years old to take the certification exam. Freshmen, Sophomore, and Juniors can take the course and receive the Certificate of Completion, but will not be able to be registered with the CDPH. It would be a great class to see if this area interests students.***

CTE Internship

This pass/fail course provides the opportunity for students to earn elective high school credits if they are in an internship for 5 or more hours per week. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are in an internship for a minimum of 5 hours per week. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Successful completion of 9th grade classes and student must currently be maintaining an internship for a minimum of 5 hours per week***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 5 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience - Full credit version

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible

for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 10 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Hospitality & Food Production Program - Sequencing

Hospitality & Food Production - Course Descriptions

Introduction to Business

This course provides complete instruction in business concepts and skills students need in today's competitive environment. This course offers extensive coverage in major business concepts, such as finance, marketing, operations, and management. Students gain valuable information and skills for the workplace, as well as preparation for success in competitive events, such as DECA.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Introduction to Restaurant Management

Have you always dreamed of running your own restaurant? Maybe you want to manage a restaurant for a famous chef. What goes on beyond the dining room in a restaurant can determine whether a restaurant is a wild success or a dismal failure. In Restaurant Management, you'll learn the responsibilities of running a restaurant—from ordering supplies to hiring and firing employees. This course covers the different types of restaurants; managing kitchen and wait staff; food safety and hygiene; customer relations; marketing; using a point-of-sale system; scheduling employees; and dealing with difficult guests. Restaurant Management will prepare you for a steady career, whether you plan to buy a fast food franchise, operate a casual sit-down restaurant, or oversee a fine-dining establishment.

- ***Prerequisite: Introduction to Business (Principles of Business)***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Culinary Arts 1 & 2

Food is fundamental to life. Not only does it feed our bodies, but it's often the centerpiece for family gatherings and social functions. In this course, students learn all about food, including food culture, food history, food safety, and current food trends. They also learn about the food service industry and prepare some culinary dishes. Through hands-on activities and in-depth study of the culinary arts field, this course helps students hone their cooking skills and gives them the opportunity to explore careers in the food industry.

- ***Prerequisite: Introduction to Restaurant Management***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

Food Handling

Our curriculum prepares students to take the exams for the necessary credentials to embark on a great career in the hospitality industry right after graduation—without the hassle or expense of additional training or degrees. The tuition-free program includes exam prep for the NOCTI Food and Beverage Services and ServeSafe Food Handler certification exams, highly regarded industry credentials.

- ***Prerequisite: This course should be taken year 3 of the Business Pathway***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

CTE Internship

This pass/fail course provides the opportunity for students to earn elective high school credits if they are in an internship for 5 or more hours per week. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are in an internship for a minimum of 5 hours per week. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Successful completion of 9th grade classes and student must currently be maintaining an internship for a minimum of 5 hours per week***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 5 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience - Full credit version

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn

1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 10 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***
- ***Meets Graduation Requirements In: Electives***

Information Technology Program - Sequencing

Coding Exploratory Pathway

LEVEL 1: IT Explorations Programming → ONTO SEMESTER 2! → PBL Computer Science Foundations

LEVEL 2: AP Computer Science Principles A → ONTO SEMESTER 2! → AP Computer Science Principles B

LEVEL 3: Coding 1A (Python) → ONTO SEMESTER 2! → Coding 2A (Python)

LEVEL 4: Coding 1B (Java) → ONTO SEMESTER 2! → Coding 2B (Java)

Mobile Apps can be taken in the Spring concurrently with any other course in Levels 3-4

Coding Specific Pathway

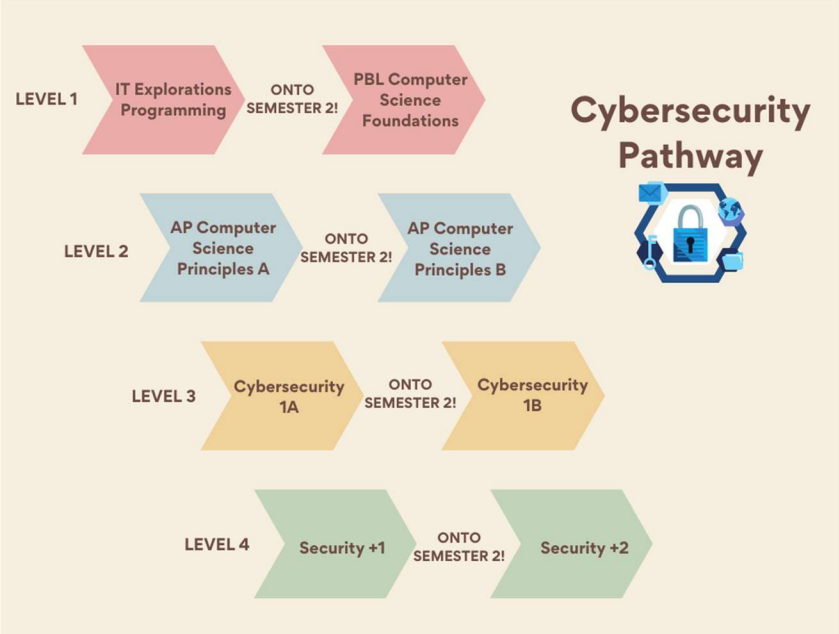
LEVEL 1: AP Computer Science Principles A → ONTO SEMESTER 2! → AP Computer Science Principles B

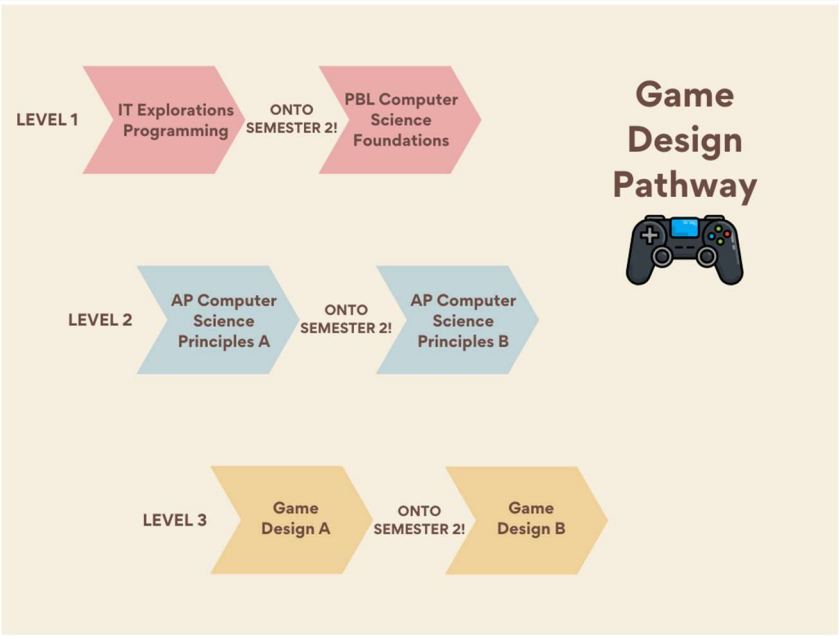
LEVEL 2: Coding 1A (Python) → ONTO SEMESTER 2! → Coding 2A (Python)

LEVEL 3: Coding 1B (Java) → ONTO SEMESTER 2! → Coding 2B (Java)

LEVEL 4: AP Computer Science A OR Data Structures with C++ → ONTO SEMESTER 2! → AP Computer Science B OR Internship or Work Experience

Mobile Apps can be taken in the Spring concurrently with any other course in Levels 3-4





Information Technology - Course Descriptions

IT Explorations - Programming

This course is a Project Based Learning course (PBL). This course is designed as an exploration of the information technology career pathways. Students will get an introduction to information technology careers so that they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of information technology, as well as career options in each area. Students study the concepts of networking information support, web and digital communications, and programming and software development.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

PBL Computer Science Foundations

Computer Science Foundations A CO is a CodeHS course that introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. The course utilizes a project-based learning approach. With a unique focus on creative problem solving and real-world applications, the CodeHS Computer Science Principles course gives students the opportunity to explore several important topics of computing using their own ideas and creativity, use the power of computing to create artifacts of personal value, and develop an interest in computer science that will foster further endeavors in the field.

- ***Prerequisite: Engineering Explorations or IT Explorations or Teacher Recommendation***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

AP Computer Science Principles A & B

AP Computer Science Principles is the equivalent of a first-semester, college-level course in computer science. The course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development. It also includes the study of data structures, design, and abstraction. Students enrolling in AP Computer Science should have knowledge of mathematics at the Algebra II level as well as some previous programming experience, a basic understanding of networks, and knowledge of the responsible use of computer systems (including system reliability, privacy, legal issues, intellectual property, and the social and ethical ramifications of computer use). To take this course, students need regular access to a computer system with recent technology.

- ***Prerequisite: IT Explorations and PBL Computer Science Foundations or Teacher Recommendation***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

Coding I A (Python)

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

- ***Prerequisite: Computer Science Foundations and Geometry***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Coding II A (Python)

Coding II challenges students to develop advanced skills in problem analysis, construction of algorithms, and computer implementation of algorithms as they work on programming projects of increased complexity. Coding II A uses the Python programming language. Course content is reinforced through numerous short- and long-term programming projects. These projects are meant to hone the discipline and logical thinking skills necessary to craft error-free syntax for the writing and

testing of programs. Upon completion of this course, proficient students will demonstrate an understanding of the Python programming language.

- ***Prerequisite: Coding I A (Python Programming I)***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Cybersecurity 1A & 1B

Cybersecurity I is a course intended to teach students the basic concepts of cybersecurity. The course places an emphasis on security integration, application of cybersecurity practices and devices, ethics, and best practices management. The fundamental skills in this course cover both in house and external threats to network security and design, how to enforce network level security policies, and how to safeguard an organization's information. Upon completion of this course, proficient students will demonstrate an understanding of cybersecurity concepts, identify fundamental principles of networking systems, understand network infrastructure and network security, and be able to demonstrate how to implement various aspects of security within a networking system.

- ***Prerequisite: AP Computer Science Principles***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

Coding I B (Java)

This is the first semester of a two-semester course in Java programming. These courses introduce programmers to Java by learning the basic principles of structured and object-oriented programming. The course incorporates topics such as using data, methods, classes, objects, looping, strings, arrays, inheritance, exception handling, GUI, and graphics. Upon completion of this course, proficient students will be able to solve problems by planning multi-step procedures; write, analyze, review, and revise programs, converting detailed information from workflow charts and diagrams into coded instructions in a computer language; and will be able to troubleshoot/debug programs and software applications to correct malfunctions and ensure their proper execution in the Java programming language.

- ***Prerequisite: Computer Science Foundations and Geometry***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Coding II B (Java)

This is the second semester of a two-semester course in Java programming. These courses introduce programmers to Java by learning the basic principles of structured and object-oriented programming. These courses incorporate the latest version of Java with meaningful real-world exercises, and case problems help students build skills critical for ongoing programming success. Upon completion of this course, proficient students will demonstrate an understanding of object-oriented programming language using the Java programming language.

- ***Prerequisite: Coding I B (Java Programming I)***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Game Design A

Game Design encourages students to use their creative and technical skills as they learn about the many aspects of designing games. The course explores different types of video game software and hardware, various gaming platforms, the technical skills necessary to design games, troubleshooting, internet safety techniques, and the history of gaming. Students also have the opportunity to create their own plan for a 2D video game. The course is designed to help prepare students either for post-secondary education in game design or for an entry level career.

- ***Prerequisite: Computer Science Foundations (A or B)***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Game Design B

We live in a technologically advanced world. And a huge part of that world is based in virtual reality and video games. Do you enjoy playing video games? Have you ever thought about designing your own video game? By signing up for Game Design II, you will have the opportunity to explore all things related to video game design. This course will give you the skills to conceptualize, design, and fully create your very own video game. Explore various video game software and hardware, sharpen your coding skills, learn about game storylines, player progression, and algorithmic decision making. This course allows you to analyze player goals, player actions, rewards, and challenges, among many other game play components. Utilize twenty-first century skills involving creativity, critical thinking, communication, collaboration, and technical expertise. When you sign up for Game Design II, you are putting yourself at the forefront of a future in technology!

- ***Prerequisite: Game Design A***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Data Structures with C++

In this course, students learn the basics of C++ programming by completing a series of hands-on projects. Students learn how to write code using variables, functions, expressions, flow control statements, loops, and more. Building on these skills, students learn arrays, structs, classes, and other basic programming concepts.

- ***Prerequisite: Coding II course (Python or Java) and Geometry***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Security +1

This is the first semester of a two semester course. The course provides a complete, practical, up-to-date introduction to network and computer security. The course maps to the new CompTIA Security+ SY0-401 Certification Exam, providing thorough coverage of all domain objectives to help students prepare for professional certification and career success. The course covers the essentials of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography.

- ***Prerequisite: Cybersecurity 1A & 1B***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Security +2

This is the second semester of a two semester course. The course continues to provide a complete, practical, up-to-date introduction to network and computer security. The course maps to the new CompTIA Security+ SY0-401 Certification Exam, providing thorough coverage of all domain objectives to help students prepare for professional certification and career success. The course covers the essentials of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography.

- ***Prerequisite: Security +1***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

AP Computer Science A & B

AP Computer Science Principles is the equivalent of a first-semester, college-level course in computer science. The course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development. It also includes the study of data structures, design, and abstraction. Students enrolling in AP Computer Science should have knowledge of mathematics at the Algebra II level as well as some previous programming experience, a basic understanding of networks, and knowledge of the responsible use of computer systems (including system reliability, privacy, legal issues, intellectual property, and the social and ethical ramifications of computer use). To take this course, students need regular access to a computer system with recent technology.

- ***Prerequisite: Coding I B and Coding II B (Java) and Algebra II***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

Mobile Apps

Mobile Apps is a CodeHS course that teaches students to create mobile apps using React Native, a popular platform-agnostic framework developed by Facebook and used by successful tech companies including Airbnb, Facebook, Instagram, Tesla, and more. Students will design and build applications to run smartphones and will use the latest tools and technologies available for mobile app development. At the end of each unit, students take a summative multiple choice unit quiz that assesses their knowledge of the concepts covered in the unit. Included in each lesson is a formative short multiple choice quiz.

- ***Prerequisite: Coding 1A and Coding 1B or Teacher Recommendation***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

CTE Internship

This pass/fail course provides the opportunity for students to earn elective high school credits if they are in an internship for 5 or more hours per week. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are in an internship for a minimum of 5 hours per week. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Successful completion of 9th grade classes and student must currently be maintaining an internship for a minimum of 5 hours per week***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 5 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience - Full credit version

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be

expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 10 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Marketing Program - Sequencing

Marketing - Course Descriptions

Introduction to Business

This course provides complete instruction in business concepts and skills students need in today's competitive environment. This course offers extensive coverage in major business concepts, such as finance, marketing, operations, and management. Students gain valuable information and skills for the workplace, as well as preparation for success in competitive events, such as DECA.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Personal Finance

Understanding financial management concepts is an important life skill. Students will understand the consequences of their financial choices, from credit and debt to insurance, taxes, investments, and discretionary spending. Instructional material surveys typical personal financial needs and emphasizes the basics of budgeting. Through activities and projects with practical applications, students taking this course learn to better prepare for and secure their financial futures. Unit topics include money management (personal financial planning and checking), financial security (savings, investments, and risks), credit management, risk management, and taxes and employment forms.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Principles of Marketing A

This course is a Project Based Learning course (PBL). Students find out what it takes to market a product or service in today’s fast-paced business environment. They learn the fundamentals of

marketing using real-world business examples. They learn about buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management.

- ***Prerequisite: Enrolled as a sophomore, junior or senior***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Principles of Marketing B

This course is a Project Based Learning course (PBL). Students build on the skills and concepts learned in Marketing 1 to develop a basic understanding of marketing principles and techniques. The course encourages students to think like an entrepreneur and begin preparing for a career in business and marketing. By the end of the course, students will understand what it takes to start a small business venture.

- ***Prerequisite: Principles of Marketing A (Introduction to Marketing I)***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Sports and Entertainment Marketing

Students who have wished to play sports professionally or who have dreamed of becoming an agent for a celebrity entertainer have an interest in sports and entertainment marketing. Although this particular form of marketing bears some resemblance to traditional marketing, there are many differences as well—including a lot more glitz and glamor! In this course, students have the opportunity to explore basic marketing principles and delve deeper into the multibillion-dollar sports and entertainment marketing industry. Students learn how professional athletes, sports teams, and well-known entertainers are marketed as commodities and how some of them become billionaires as a result. For students who have ever wondered about how things work behind the scenes of a major sporting event such as the Super Bowl or even entertained the idea of playing a role in such an event, this course introduces the fundamentals of such a career.

- ***Prerequisite: None***
- ***Course Length: One semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Intro to Entrepreneurship

This course is a Project Based Learning course (PBL). In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to develop new business ideas, attract investors, market their business, and manage expenses.

- ***Prerequisites: Principles of Marketing A and B OR Accounting Principles 1 and 2***
- ***Course Length: One semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Entrepreneurship

This course is a Project Based Learning course (PBL). Students build on the business concepts they learned in Entrepreneurship I. Students continue to explore the different functions of business, while refining their technology and communication skills in speaking, writing, networking, negotiating, and listening. The purpose of this course is to prepare students to launch a small business venture.

- ***Prerequisite: Intro to Entrepreneurship (Entrepreneurship I)***

- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Microsoft Excel Fundamentals

This course is for students who wish to learn core skills in Microsoft Excel. Students work through projects to hone skills in data entry and management, formula creation, email management and a vast variety of commonly used email, spreadsheet, and database tools.
This course prepares students for the Microsoft Excel 2019 Associate certification.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Introduction to Web Based Applications

This training equips students with the skills they need to become productive with Google Workspace. By the end of this Specialization, the student will be proficient in the use of the core Google Workspace applications: Gmail, Google Calendar, Google Drive, Google Docs, Google Sheets, Google Slides, Google Meet and Google Chat. Students will learn how to manage mail and schedules effectively; create, manage and share content in Google Drive, and become more productive through the use of the collaboration features that are an integral and defining part of Google Workspace.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***
- ***System Requirements:*** *It is recommended that students engage with this content using a Chromebook, Windows, or Mac OS computer with Google Chrome installed, plus a managed Google Workspace account.*

Accounting Principles 1A and 1B

This year-long two-semester course teaches accounting while placing emphasis on conceptual understanding and financial statement analysis to encourage students to apply accounting concepts to real-world situations and make informed business decisions. Topics include transactions and methods of accounting for both service and merchandising businesses.

- ***Prerequisite: This is an 11th or 12th grade elective***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

CTE Internship

This pass/fail course provides the opportunity for students to earn elective high school credits if they are in an internship for 5 or more hours per week. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are in an internship for a minimum of 5 hours per week. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Successful completion of 9th grade classes and student must currently be maintaining an internship for a minimum of 5 hours per week***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

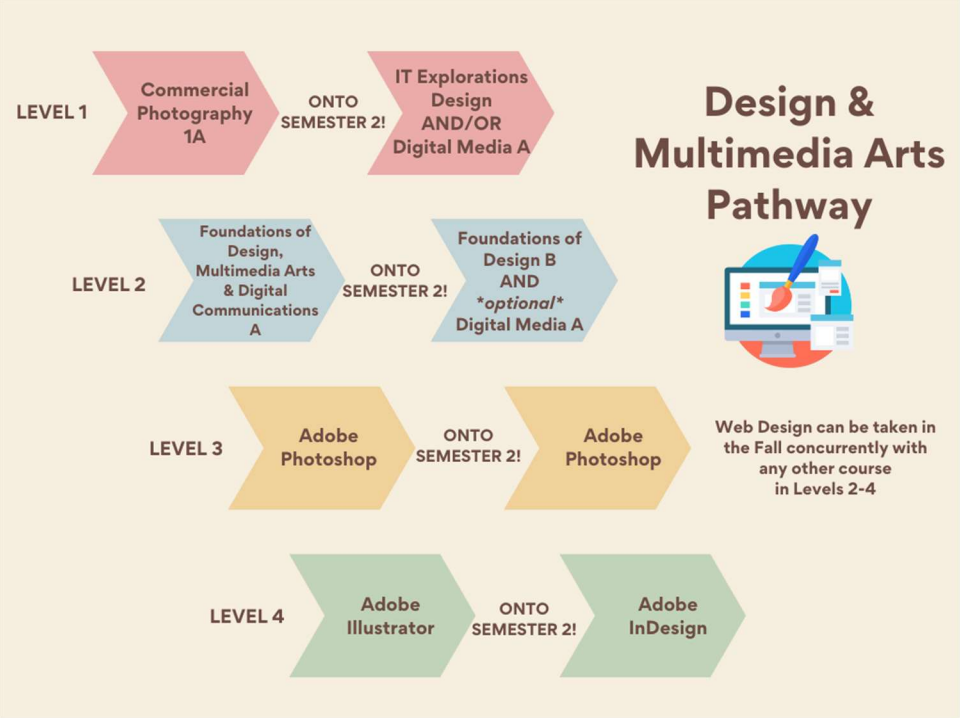
- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 5 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience - Full credit version

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 10 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Media Arts Program - Sequencing



Media Arts - Course Descriptions

Commercial Photography 1A

Students will learn about photographic composition and lighting, develop an understanding of using a digital camera and the basics of preparing a digital darkroom. Students will also learn color theory and the fundamentals of image processing. Software skills are taught through practical, hands-on activities that get students involved in the learning process and help them retain the content. By the conclusion of this course, students are capable of producing their own unique and highly personalized images. Creativity and successfully composed photos are a large component of success in this course. This course is designed for the student with beginning to intermediate experience in photography.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

IT Explorations - Design

This course is a Project Based Learning course (PBL). This course is designed as an exploration of the information technology career pathways in graphic design. Students will get an introduction to IT graphic design, digital art, and web design careers through research and design projects so that they can better assess which pathway to pursue. Students will study the art of design including initial concept of ideas progressing through design creation using software through final production in a variety of projects for digital communications and web design. They will also explore display and

presentation of digital artwork. They respond to the artwork of others and learn how to combine artistic elements to create finished pieces that effectively communicate their ideas.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Digital Media A

This course is a Project Based Learning course (PBL). This introductory design course is for students who want to create compelling, professional-looking graphic designs and photos. Students learn the basics of composition, color, and layout through the use of hands-on projects that allow them to use their creativity while developing important foundational skills. They use GIMP software to create a graphic design portfolio with a wide variety of projects involving the mastery of technical topics such as working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. The projects help students develop the skills they need to create and edit images of their own.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***
- ***System Requirements: Microsoft® Windows XP® or higher, or Mac® OS X® operating system; 400 MHz or faster processor; 512 MB of memory (RAM); at least 2 GB of hard drive space; Adobe® Reader®; the most current Adobe® Flash® Player***

Foundations of Design, Multimedia Arts, and Digital Communications A & B

These courses are Project Based Learning courses (PBL). Students will learn the elements and principles of design, as well as foundational concepts of visual communication. While surveying a variety of media and art, students use image editing, animation, and digital drawing to put into practice the art principles they've learned. They explore career opportunities in the design, production, display, and presentation of digital artwork. They respond to the artwork of others and learn how to combine artistic elements to create finished pieces that effectively communicate their ideas. For Digital Arts II, students will build on the skills and concepts they learned in Digital Arts I as they develop their vocabulary of digital design elements. By the end of the course, they will have created a collection of digital art projects for their digital design portfolio.

- ***Prerequisite: None***
- ***Course Length: One Year***
- ***Meets Graduation Requirements In: Pathway Electives***
- ***Materials: Inkscape (free download provided in course)***
- ***Computer Requirements: Microsoft Windows XP, Windows Vista, or Mac OS X 10.3 or higher operating system, 1 GHz or faster processor; at least 512 MB of memory (RAM); at least 1 GB of available hard drive space***

Adobe Photoshop

This course provides a solid foundation for students to learn cutting edge technology for sophisticated digital editing. Students progress from basic to advanced Photoshop techniques and learn not only the how, but also the why behind each Photoshop tool to help students excel at design as well as master the software. At the end of this course, students are prepared to excel on the Adobe Certified Associate certification exam.

- ***Prerequisite: Digital Media A and Foundations of Design, Multimedia Arts, & Digital Communications A and B***
- ***Course Length: One Year***
- ***Meets Graduation Requirements In: Pathway Electives***

Adobe Illustrator

This course provides students in-depth exploration in all areas of Adobe Illustrator. Beginning with fundamental concepts and progressing to the software's full set of features, this course allows students to build a portfolio by completing projects that explore and express their unique creative talents. At the end of this course, students are prepared to excel on the Adobe Certified Associate certification exam.

- ***Prerequisite: Foundations of Design, Multimedia Arts, & Digital Communications A and B***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Adobe InDesign

This course provides students with an in-depth exploration of Adobe InDesign, the industry standard for page layout software. This course covers fundamental concepts, starting with the workspace, and proceeds logically and intuitively to more advanced topics. Students learn how to work in InDesign using either Mac or PC platforms, and the course includes extensive coverage of Creative Cloud features. At the end of this course, students are prepared to excel on the Adobe Certified Associate certification exam.

- ***Prerequisite: Foundations of Design, Multimedia Arts, & Digital Communications A and B***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Web Design

This one-semester course introduces students to the mechanics and elements of web design and HTML, and the concepts of planning and organizing websites. Students engage in a variety of project-based assessments to evaluate their understanding and progress. After completing the course, students are able to understand the planning and organization of a website, the elements of design and HTML. Students also learn how to use a WYSIWIG editor and other online tools to create a website.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

CTE Internship

This pass/fail course provides the opportunity for students to earn elective high school credits if they are in an internship for 5 or more hours per week. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are in an internship for a minimum of 5 hours per week. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Successful completion of 9th grade classes and student must currently be maintaining an internship for a minimum of 5 hours per week***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be

expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 5 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience - Full credit version

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 10 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Outdoor Recreational Leadership Program - Sequencing

Outdoor Recreational Leadership - Course Descriptions

Outdoor Leadership 1

Through experiential based learning in the wilderness and collaboration with outdoor professionals this course enables the student to develop, acquire and apply outdoor leadership skills and knowledge to real life situations such as backpacking and navigating the mountains in winter conditions. The class exposes students to the latest information, philosophy, and techniques necessary to safely conduct outdoor programs and expeditions as an outdoor leader. Skills are applied under actual field conditions. An emphasis is placed on minimum impact camping, wilderness ecology, judgment, decision making, group dynamics, and trip logistics. These skills enhance the effectiveness of the student as a professional outdoor leader. The class emphasizes the motivation, aesthetics and ethics of wilderness, and examines viewpoints from Native American, Western, historic and modern environmental writers. Outdoor leadership 1 and 2 is a must for future guides, outfitters, outdoor educators, agency employees, scout/youth group leaders, or anyone who cares about minimizing impact on the Colorado backcountry.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***
- ***Fees and Requirements: $150 in student fees. There are required Face to Face learning experiences such as a 3-day backpacking trip and a Wilderness First Aid Unit***
- ***Limited spots available for this course***

Outdoor Leadership 2

Through experiential based learning in the wilderness and collaboration with outdoor professionals this course enables the student to develop, acquire and apply outdoor leadership skills and knowledge to real life situations such as backpacking and navigating the mountains in winter conditions. The class exposes students to the latest information, philosophy, and techniques necessary to safely conduct outdoor programs and expeditions as an outdoor leader. Skills are applied under actual field conditions. An emphasis is placed on minimum impact camping, wilderness ecology, judgment, decision making, group dynamics, and trip logistics. These skills enhance the effectiveness of the student as a professional outdoor leader.

The class emphasizes knowledge of backpacking skills, proper physical conditioning, route finding, equipment selection, and an understanding and respect for the environment. Students will gain a better understanding of the inherent risks associated with various outdoor activities and they will learn how to analyze and minimize those risks, how to establish emergency protocols to react to those risks, and how to take the proper steps to resolve the consequences from those risks. After learning to identify, assess and reduce the risk, students will write a risk management plan specific to their area of interest. Students will apply risk management skills within the context of winter recreation, while analyzing avalanche hazards, route finding, and considering group dynamics.

- ***Prerequisite: None***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***
- ***Fees and Requirements: $150 in student fees. There are required Face to Face learning experiences such as a 3-day snowshoe hut trip, 1-day rafting trip, and a Leave No Trace Unit***
- ***Limited spots available for this course***

Introduction to Forestry & Natural Resources A & B

Forests and other natural resources play an important role in our world, from providing lumber and paper products to providing habitat for birds and animals. In the Introduction to Forestry and

Natural Resources course, you'll learn more about forest ecology, management, and conservation. You'll explore topics such as environmental policy, land use, water resources, and wildlife management. Finally, you'll learn more about forestry related careers and important issues facing forestry professionals today.

- ***Prerequisite: None***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

Wildlife, Fisheries & Ecology Management 1 & 2

This course is designed to enable students to explore various career opportunities within the Agriculture Cluster. The first part of this course covers ecological principles, environmental resources, habitat conservation, habitat management, and more. The second part of this course covers waterfowl identification, ecology, and conservation and management. In addition, the course covers subjects related to common diseases and parasites of wildlife, wildlife and habitat management, and hunting and fishing regulations. Aquaculture management, aquaculture plant and animal species, propagation of aquatic plants, nutrition of aquatic species, and marketing aquaculture products are also discussed.

- ***Prerequisite: None***
- ***Course Length: Two Semesters***
- ***Meets Graduation Requirements In: Pathway Electives***

Intro to Entrepreneurship

This course is a Project Based Learning course (PBL). In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to develop new business ideas, attract investors, market their business, and manage expenses.

- ***Prerequisites: Principles of Marketing A and B OR Accounting Principles 1 and 2***
- ***Course Length: One semester***
- ***Meets Graduation Requirements In: Pathway Electives***

Entrepreneurship

This course is a Project Based Learning course (PBL). Students build on the business concepts they learned in Entrepreneurship I. Students continue to explore the different functions of business, while refining their technology and communication skills in speaking, writing, networking, negotiating, and listening. The purpose of this course is to prepare students to launch a small business venture.

- ***Prerequisite: Intro to Entrepreneurship (Entrepreneurship I)***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Pathway Electives***

CTE Internship

This pass/fail course provides the opportunity for students to earn elective high school credits if they are in an internship for 5 or more hours per week. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are in an internship for a minimum of 5 hours per week. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Successful completion of 9th grade classes and student must currently be maintaining an internship for a minimum of 5 hours per week***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 5 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

CTE Work Experience - Full credit version

This pass/fail course provides the opportunity for students to earn elective high school credits if they are working 5 or more hours per week on average. Students participating in this course will be responsible for logging hours and writing weekly reflections. Within the first week of the semester, students will be expected to have a contract signed by their supervisor showing that they indeed are working the minimum of 5 hours per week or 60 hours total. Students who show proof of 120 hours total have the ability to earn 1 full credit. This course does not provide any live class connect sessions. This course is graded on a pass/fail grading scale.

- ***Prerequisite: Student must currently be maintaining a paying job working a minimum of 10 hours per week average***
- ***Course Length: One Semester***
- ***Meets Graduation Requirements In: Electives***

Concurrent Enrollment

Destinations Career Academy of Colorado is pleased to provide eligible students with several different avenues for concurrent enrollment. Concurrent Enrollment allows students to receive college credit and high school credit for a class taken during high school. The purpose of these college classes include promoting content standards, providing academic challenges, and providing access to starting a college transcript early. Students enrolled in the 9th- 12th grade, who demonstrate academic preparedness, are eligible for concurrent enrollment.

- The first avenue for concurrent enrollment is “In-house” concurrent enrollment. These are college classes taught in our school by one of our credentialed Destinations Career Academy of Colorado instructors. CODCA has partnered with Northeastern Junior College to provide these opportunities for our students. Please know that CODCA will continue to expand on these offerings, so check the course catalog frequently.

- The second avenue is Northeastern Junior College online courses. These are college courses taken through Northeastern Junior College taught by a college professor but are delivered online. These courses also include NJC’s CCC online courses.

- The third avenue is “College Campus” concurrent enrollment. These are college courses taken at/through the student’s local community college by a college professor.

To enroll in any concurrent enrollment avenue, a student must have completed the minimum course prerequisites, required assessments, and complete the registration process. Please contact your high school counselor with questions.

In-House Concurrent Enrollment

HPE102 - Sports Medicine

These courses introduce students to essential skills in sports medicine including fitness assessment, conditioning, emergency preparedness, injury management, therapeutic modalities, nutrition, and ethical and legal considerations. Students explore careers in fitness instruction, athletic training, exercise physiology, sports management, and physical therapy. Students also study essential skills in Sports Medicine including fitness assessment, conditioning, emergency preparedness, injury management, therapeutic modalities, nutrition, and ethical and legal considerations. Students explore careers in fitness instruction, athletic training, exercise physiology, sports management, and physical therapy. This course can be taken as a concurrent enrollment course offering the student college credit through Northeastern Junior College (HPE102).

- ***Prerequisite: Completion of Medical Terminology, and Anatomy and Physiology A and B***
- ***Course Length: One semester - Fall only***
- ***Meets Graduation Requirements In: Pathway Elective***
- ***Materials: Principles of Athletic Training 15th Ed. William Prentice***
- ***ISBN – 978-0-07-352379-6, 3D4M Essential Anatomy, iMuscle***

HPE231 - Care and Prevention of Athletic Injuries

Focuses on techniques in prevention, care and basic rehabilitation of athletic injury. This course is a concurrent enrollment course offering the student college credit through Northeastern Junior College (HPE231).

- ***Prerequisite: Completion of Medical Terminology, and Anatomy and Physiology A and B***
- ***Course Length: One semester - Spring Only***
- ***Meets Graduation Requirements In: Pathway Elective***
- ***Materials: Principles of Athletic Training: A Guide to Evidence-Based Clinical Practice ISBN: 978-1260241051***

BIO 104 - Biology: A Human Approach

This course is a concurrent enrollment course offering the student 4 college credits through Northeastern Junior College (BIO104). Develops a basic knowledge of the structure and function of the human body by studying the body's structure as a series of interrelated systems. Includes cardiovascular, respiratory, digestive, lymphatic, musculoskeletal, nervous, endocrine, reproductive and urinary systems, and genetics. Emphasizes disease prevention and wellness. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

- ***Prerequisite: Completion of High School Biology with a B or better and teacher recommendation***
- ***Course Length: One semester- Fall only***
- ***Meets Graduation Requirements In: Science***
- ***Materials: TBD***

BIO 105 - Science of Biology with Lab

This course is a concurrent enrollment course offering the student 4 college credits through Northeastern Junior College (BIO105). Examines the basis of biology in the modern world and surveys the current knowledge and conceptual framework of the discipline. Explores biology as a science - a process of gaining new knowledge - as well as the impact of biological science on society. Includes laboratory experiences.

- ***Prerequisite: Completion of High School Biology with a B or better and teacher recommendation***
- ***Course Length: One semester- spring only***
- ***Meets Graduation Requirements In: Science***
- ***Materials: TBD***

CRJ110 - Introduction to Criminal Justice

This course introduces a study of the agencies and processes involved in the criminal justice system: the legislature, the police, the prosecutor, the public defender, the courts, and corrections. Includes an analysis of the roles and problems of the criminal justice system in a democratic society, with an emphasis upon inter-component relations and checks and balances. This course is a concurrent enrollment course, offering the student college credit through Northeastern Junior College (CRJ110).

- ***Prerequisite: Careers in Criminal Justice 1 and 2 OR Teacher Recommendation***
- ***Course Length: One Semester - Fall***
- ***Meets Graduation Requirements In: Pathway Elective***

Northeastern Junior College Online Courses

NJC CCC Online Options

There are many CCC (Colorado Community College) Online offerings through Northeastern Junior College. Please click here, select the upcoming term and click submit. Then select the subject that you are interested in and select “NJC CCCOnline” as the campus and then click “class search.”