DUBLIN
CITY SCHOOLS

HIGH SCHOOL ACADEMIC PROGRAMS AND PATHWAYS

2025-2026

DUBLIN CITY SCHOOLS

Dear Students,

Dublin City Schools' *2025-2026 Academic Programs & Pathways* are available to provide you and your parents all of the information you need to be thoroughly prepared for your post-graduation plans.

This guide provides details on the wide variety of courses available to you but it remains imperative you work closely with your teachers and counselors to make the most informed decisions possible regarding course selections. Please take advantage of their expertise and insights that will assist you in selecting courses that meet your current needs and future goals.

Students interested in high level coursework may consider enrolling in Advanced Placement or International Baccalaureate courses. We also have many exciting specialized academies available for those interested in career exploration.

Best of luck to you in all of your academic endeavors here at Dublin City Schools.

Sincerely,

John Marschhausen
Superintendent

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PATHWAYS

DUBLIN CITY SCHOOLS

Students should use the pathway information guides to connect their postsecondary education and career plans to related electives, programs and clubs. Below are six career pathway communities, each with multiple options and opportunities. To help identify career pathway community focus areas, students should use tools like SchooLinks and YouScience.

The 4 E's - Options After Graduation

Education: Certifications, Two-Year, Four-Year and Advanced Degrees

Employment: On-the-job Training, College Reimbursement, High Demand Careers

Enlistment: Active Duty, Military Academies, National Guard, ROTC

Entrepreneur: Start a Business, Side Hustles, Gig Economy

During high school, students can participate in a variety of options to help determine aptitude and interests in the pathways. Additionally, students may have opportunities to participate in mentorships, internships and earn industry credentials and/or college credit.

AGRICULTURE AND ENVIRONMENTAL SYSTEMS	***ARTS AND COMMUNICATION***	***BUSINESS AND LAW***
Animal Sciences Ag Sciences Food Sciences Natural Resources	Mass Communications Interactive Media & Design Performing Arts Visual Arts	Business Administration & Management Finance Government Marketing
EDUCATION, HOSPITALITY AND HUMAN SERVICES	***ENGINEERING, TECHNOLOGY AND TRANSPORTATION***	***HEALTH SCIENCES AND PUBLIC SAFETY***
Cosmetology Hospitality & Restaurant Management Teaching Tourism	Automotive Aviation Engineering Information Technology Modern Manufacturing	Emergency Medical Technician (EMT) / Fire Science Criminal Justice Health Care

DCS PATHWAYS

Pathway Programs

AGRICULTURE AND ENVIRONMENTAL SYSTEMS

- Tolles Animal Management
- Tolles Outdoor Careers
- Tolles Pre-Veterinary Technicial
- Zoo School

ARTS AND COMMUNICATION

- Media Marketing Academy
- Tolles Art, Design and Communication

BUSINESS AND LAW

- Dublin Business Academy
- Entrepreneur Academy
- Tolles Law and Public Safety

EDUCATION, HOSPITALITY AND HUMAN SERVICES

- Dublin Teacher Academy
- Hospitality Academy
- Tolles Cosmetology
- Tolles Early Childhood Education
- Tolles Culinary Arts and Food Science

ENGINEERING, TECHNOLOGY & TRANSPORTATION

- Aviation Academy
- Cybersecurity Academy
- Engineering Academy
- Information Technology Academy (IT)
- Tolles Information Technology (IT)
- Tolles Transportation
- Tolles Construction Trades
- Tolles Power Sports
- Tolles RAMTech Engineering

HEALTH SCIENCES AND PUBLIC SAFETY

- Biomedical Research Academy
- Healthcare Professionals Academy
- Sports Science Academy
- Tolles Exercise Science
- Tolles Criminal Justice
- Tolles Firefighting and EMS
- Tolles Pharmacy Technician
- Tolles Pre-Nursing

OTHER PROGRAMS CONNECTED TO ALL PATHWAYS

- Dublin Cooperative Education Experience
- Dublin Young Professionals' Academy
- Dublin Co-op
- Early College Academy
- IB Diploma Program
- Mosaic

ACADEMIC PATHWAY PLANNING

Begin your course planning by learning about your strengths and interests and identifying your chosen career or career cluster. Dublin City Schools has two programs available to students to help them explore their interests and aptitudes and aid in pathway planning, Schoolinks and YouScience.

Schoolinks is an online platform designed to assist high school students in their college and career preparation. It provides resources for career inventories and exploration, college research, application management, scholarship searches, and academic planning.

YouScience is a career discovery platform that combines aptitude, interest, and career data to help individuals identify their strengths and explore potential career paths that align with their skills and interests.

COURSE OFFERINGS

Academies

Academy Name	Code	HS Credits
**International Baccalaureate Program	501/502	0.5/0.5
**Early College Academy Yearlong	A018	4.5
**Early College Academy Semester 1	A010/011	2.25
**Early College Academy Semester 2	A012/014	2.25
**Media Marketing Academy	A110/A111	2.5/2.5
**Dublin Business Academy	A115	2.5
**Dublin Entrepreneur Academy	A125	2.5
**Dublin Teacher Academy (DTA)	A130/A131	2.5/2.5
**Hospitality Academy	A150	2.5
**Engineering Academy	A155	2.5
**Cybersecurity Academy	A160/A161	1.0/2.5
**Information Technology Academy (IT)	A160/A165	1.0/2.5
**Aviation Academy	A170/A171	2.5/2.5
**Biomedical Research Academy	A175	3.0
**Healthcare Professionals Academy	A180	2.33
**Sports Science Academy	A185	2.5
**Young Professional's Academy (YPA)	A135/A1352	1.0
**Dublin Co-op	A145/A1452	0.5/1.0

Academic Support & Leadership

Course Name	Code	HS Credits
Academic Support & Leadership	9691/9692	0.0
Peer Collaboration	7341/7342	0.0
**Bridge Academy	BRDG1/BRDG2	
**PATHS Academy	PATHS1/PATHS2	0.0
WorkForce Ready	694/695	0.5/0.5

Applied Science

Course Name	Code	HS Credits
Introduction to Engineering & Industrial Design (Level 1)	610	1.0
Engineering & Industrial Design (Level 2)	611	1.0
Architectural Design & Modeling	614	1.0
Product Design & Modeling	618	1.0
Capstone Course: Engineering Research & Internship	620	1.0
Designing Your Life	676	1.0
Parenting & Child Development	681	0.5
Future Proof	682	0.5
Foods & Fitness	683	0.5
Global Gourmet	684	0.5
Interior Design & Housing	686	0.5

Business & Technology

Course Name	Code	HS Credits
Introduction to Business	408	0.5
Marketing & Advertising	426	0.5
Introduction to Entrepreneurship	427	0.5

Business & Technology (continued)

Course Name	Code	HS Credits
Accounting I	497	0.5
Accounting II	498	0.5
Personal Law	451	0.5
Cybersecurity, Engineering and IT Fundamentals	444	0.5
*Professional Foundations	(V)482	0.5
Web Page Design	485	0.5
Introduction to Computer Programming	384	0.5
Advanced Placement Computer Science Principles	385	1.0
Advanced Placement Computer Science A	386	1.0
**IB Business Management (SL)	503	1.0
**IB Computer Science (SL)	543	1.0
**IB Computer Science (HL) Year 1/Year 2	547/548	1.0/1.0

English Language Arts

Course Name	Code	HS Credits
*English I	(V)013	1.0
Honors English I	015	1.0
*English II	(V)021	1.0
Honors English II	022	1.0
American Studies - 1877 to Present	166	2.0
Advanced Placement American Studies	167	2.0
*English III	(V)029	1.0
Honors English III	030	1.0
*English IV	(V)035	1.0
Advanced Placement English Literature	034	1.0
Advanced Placement English Language	039	1.0
Creative Writing	045	0.5
Writing for Publication I	050	0.5
Writing for Publication II	051/0512	0.5/1.0
Public Speaking	052	0.5
Yearbook	055	1.0
Yearbook II	056/0562	0.5/1.0
Argumentation & Debate	057	0.5
English Connections	064/0642	0.5/1.0
EL English Studies Beginner	905/904	2.0
EL English Studies Intermediate	906/904	2.0
EL English Intermediate	907	1.0
EL English Advanced	908	1.0
EL English Transitional	909	1.0
EL Resource	910/9102	0.5/1.0
EL Writing & Content Literacy Skills	911/9112	0.5/1.0
*ACT/SAT Preparation & Literacy Skills	(V)979	0.5
**IB English Language & Literature (HL) Year 1/Year 2	582/583	1.0/1.0
**IB Literature & Performance (SL)	584	1.0

**Course with (V) are also offered virtually through DCS Virtual. Read more about DCS Virtual.
**Offered only at Emerald Campus, travel required with transportation available.

COURSE OFFERINGS

Mathematics

Course Name	Code	HS Credits
*Algebra I	(V)328	1.0
Algebra I Connections	327	1.0
*Geometry	(V)342	1.0
Geometry Connections	341	1.0
*Algebra 2	(V)334	1.0
Algebra 2 Connections	333	1.0
Applications of Geometry & Algebra	332	1.0
Honors Algebra 2	336	1.0
Data Science Foundations	335	1.0
Advanced Integrated Mathematics	360	1.0
*Precalculus	(V)371	1.0
Advanced Placement Precalculus	374	1.0
Advanced Placement Calculus AB	376	1.0
Advanced Placement Calculus BC	378	1.0
Advanced Placement Statistics	390	1.0
**IB Mathematics: Analysis & Approaches (SL)	507	1.0
**IB Mathematics: Analysis & Approaches (HL) Year 1/Year 2	509/510	1.0/1.0
**IB Mathematics: Applications & Interpretations (SL)	511	1.0
**CSCC College Algebra	CSMATH1148	1.0
**CSCC Trigonometry	CSMATH1149	1.0
**CSCC Calculus I	CSMATH1151	1.0
**CSCC Calculus II	CSMATH1152	1.0

Performing Arts

Course Name	Code	HS Credits
Band	852	1.0
Color Guard	853	0.5
Jazz Ensemble	862	1.0
Orchestra	872	1.0
Theatre I	875	0.5
Theatre II	876	0.5
Theatre III (Theater Ensemble)	8781/8782	0.5/1.0
Theatre Technology & Design	8771/8772	0.5/1.0
TBB Chorus (Tenor, Baritone, Bass)	880	1.0
Symphonic Choir	881	1.0
SSA Chorus (1st Soprano, 2nd Soprano, Alto)	882	1.0
Chorale	883	1.0
A Cappella Chamber Choir	884	1.0
Music History	887	1.0
Music Theory	888	1.0
Music Appreciation (offered 2026-2027)	889	1.0

Science

(LS) - Fulfills the life science graduation requirement
(PS) - Fulfills the physical science graduation requirement

Course Name	Code	HS Credits
*Physical Science (PS)	(V)205	1.0
Environmental Sustainability & Societies	213	1.0
*Earth & Space Science	(V)214	1.0
*Biology (LS)	(V)215	1.0
Advanced Placement Biology (LS)	217	2.0
Human Anatomy & Physiology (LS)	220	1.0
Chemistry (PS)	236	1.0
Advanced Placement Chemistry (PS)	238	2.0
Advanced Placement Environmental Science	239	1.0
Advanced Research in Science	240/2402	0.5/1.0
*Physics (PS)	(V)242	1.0
Advanced Placement Physics 1 (PS)	243	1.0
Advanced Placement Physics 2 (PS)	244	1.0
Advanced Placement Physics C (PS)	245	2.0
**IB Chemistry (HL) (PS) - Year 1 / Year 2	521/522	1.0/1.0
**IB Physics (SL) (PS)	523	1.0
**IB Environmental Systems & Societies (SL)	525	1.0
**IB Sports, Exercise & Health Science (SL)(LS)	586	1.0
**IB Sports, Exercise & Health Science (HL) (LS)	596/597	1.0/1.0

Social Studies

Course Name	Code	HS Credits
Modern World History	162	1.0
Advanced Placement World History: Modern	128	1.0
Sociology	137	0.5
*Psychology	(V)138	0.5
*American History, 1877 to the Present	(V)160	1.0
Advanced Placement United States History	163	1.0
American Studies, 1877 to the Present	166	2.0
Advanced Placement American Studies	167	2.0
Advanced Placement European History	168	1.0
*American Government	(V)170	0.5
Advanced Placement U.S. Government & Politics	171	1.0
*Contemporary World Issues	(V)176	0.5
Advanced Placement Economics	177/177FL	1.0/1.5
Women's Studies	169	0.5
African American Studies	173	0.5
**IB History (HL) - Year 1/Year 2	529/530	1.0/1.0
**IB Psychology (SL)	527	1.0
**IB Global Politics (SL)	587	1.0

**Course with (V) are also offered virtually through DCS Virtual. Read more about DCS Virtual.
**Offered only at Emerald Campus, travel required with transportation available.

COURSE OFFERINGS

Visual Arts

Course Name	Code	HS Credits
*Art Foundations	(V)760/7602	0.5/1.0
Ceramics	762/7622	0.5/1.0
Graphic Design	764/7642	0.5/1.0
*Computer Graphics	(V)766/7662	0.5/1.0
Sculpture	768/7682	0.5/1.0
Photography	770	0.5
Painting	772/7722	0.5/1.0
*Drawing	(V)774/7742	0.5/1.0
Advanced Photography	778/7782	0.5/1.0
Advanced Placement Art History	782	1.0
Advanced Placement 2-D Art & History	784	1.0
Advanced Placement 3-D Art & Design	785	1.0
Advanced Placement Drawing	786	1.0
**IB Visual Arts (SL) - Year 1/Year 2	531/532	1.0/1.0
**IB Visual Arts (HL) - Year 1/Year 2	533/534	1.0/1.0

Wellness

Course Name	Code	HS Credits
*Health Education	(V)921	0.5
Sports & Fitness	930/9302	0.25/0.5
*Fitness Trends	(V)931/9312	0.25/0.5
Basic Strength Training & Fitness	932	0.25
Competitive Sports, Games and Tournaments	933/9332	0.25/0.5
Advanced Sports Training for Athletes	934/9342	0.25/0.5
*Wellness & Individualized Fitness	(V)935/9352	0.25/0.5
*Financial Literacy	(V)440	0.5

World Languages

Course Name	Code	HS Credits
**Chinese I	105	1.0
**Chinese II	106	1.0
**Chinese III	107	1.0
French I	078	1.0
French II	079	1.0
French III	080	1.0
Honors French IV	083	1.0
Advanced Placement French	084	1.0
German I	070	1.0
German II	071	1.0
German III	072	1.0
Honors German IV	074	1.0
Advanced Placement German	075	1.0
Japanese I	100	1.0
Japanese II	101	1.0
Japanese III	102	1.0
Advanced Placement Japanese	103	1.0

World Languages (continued)

Course Name	Code	HS Credits
Spanish I	095	1.0
Spanish II	096	1.0
Spanish III	097	1.0
Honors Spanish IV	098	1.0
Advanced Placement Spanish	099	1.0
**IB Spanish B (SL) - Year 1/Year 2	539/540	1.0/1.0
**IB Spanish B (HL) - Year 1/Year 2	559/560	1.0/1.0
**IB German B (SL) - Year 1/Year 2	561/562	1.0/1.0
**IB German B (HL) - Year 1/Year 2	563/564	1.0/1.0
**IB French B (SL) - Year 1/Year 2	565/566	1.0/1.0
**IB French B (HL) Year 1/Year 2	567/568	1.0/1.0
**IB Mandarin Chinese B (SL) - Year 1/Year 2	573/574	1.0/1.0
**CSCC Beginning ASL I	CSASL1101	1.0
**CSCC Beginning ASL II	CSASL1102	1.0
**CSCC Beginning Arabic I	CSARAB1101	1.0
**CSCC Beginning Arabic II	CSARAB1102	1.0

Tolles

Career Exploration Academy + English 10

Outdoor Careers

Animal Management & Services

Media Marketing Academy - Emerald Campus

Art Design & Communication

Dublin Business Academy - Emerald Campus

Construction Technologies

Early Childhood Education

Pharmacy Technician

Pre-Nursing

Pre-Veterinary Technician

Exercise Science

Culinary Arts + Food Science

Cosmetology

Cybersecurity

Computer Network & Support Technologies

Criminal Justice

Firefighting & EMS

Engineering Technologies

Welding & Fabrication Technologies

Automotive Technologies

Automotive Collision Repair

Power Sports & Auto Services

Zoo School

Mosaic

*Course with (V) are also offered virtually through DCS Virtual. Read more about DCS Virtual.

**Offered only at Emerald Campus, travel required with transportation available.

EMERALD CAMPUS PROGRAMS

Emerald Campus is an educational opportunity open to Dublin City Schools high school students. Students can choose from several personalized academies that aim to help students develop their career and life-ready skills. Opportunities include experiential learning, International Baccalaureate, Columbus State college courses, and alternative learning. There are no additional costs for students to participate in these programs, however, AP and IB test fees do apply.

Emerald Campus is located across the street from Coffman High School at 5175 Emerald Parkway and transportation is provided between the three home high schools and Emerald Campus via shuttle buses. Some academies require transportation off-site and transportation may be available.

Students attending Emerald Campus are typically in grades 10-12 and attend for at least 2-3 periods a day (with some exceptions). Some programming is specific to grades 11-12 students due to age or grade restrictions. For each program, there are a variety of credits and credentials available, please review the following program descriptions, consult with your school counselor, and visit the Emerald Campus website at https://emerald.dublinschools.net/for more details.

Programs Available through Emerald Campus

- **International Baccalaureate Program**
  - IB Diploma Program
  - Individual IB Courses
- **College Credit Plus**
  - Early College Academy
  - American Sign Language Studies
  - Arabic Language Studies
  - Math Studies
- **Arts and Communication**
  - Media Marketing Academy
- **Alternative Learning Programs**
  - Bridge Academy
  - PATHS Academy
- **Business and Law**
  - Dublin Business Academy
  - Entrepreneur Academy
- **Education, Hospitality and Human Services**
  - Dublin Teacher Academy
  - Hospitality Academy
- **Engineering, Technology and Transportation**
  - Engineering Academy
  - Cyber Academy
  - Information Technology Academy
  - Aviation Academy
- **Health Sciences and Public Safety**
  - Biomedical Research Academy
  - Healthcare Professionals Academy
  - Sports Science Academy
- **Dublin Internship Program**
  - Young Professionals Academy
  - Dublin Co-op

There are a limited number of seats available in each program. If the requests exceed capacity, priority will be based on seniority.

INTERNATIONAL BACCALAUREATE PROGRAM

The International Baccalaureate (IB) Program offers an academically rigorous, yet balanced education, designed to prepare students successfully in their last two years of high school for university and career pathways. Students may enroll in courses toward earning an IB Diploma, awarded by the International Baccalaureate Organization, or individual courses. Students who are successful in the IB Program can earn college credit, college scholarships, and other admissions related benefits at many colleges and universities.

A student can earn the IB Diploma by completing a course from each of the six subjects, all assessments, and the required IB Core course components (Theory of Knowledge, Creativity Activity and Service, and Extended Essay). Students participating in four or more IB courses over the junior and senior year may also schedule the IB Core.

The IB groups and courses include:

IB Core
- Theory of Knowledge
- Creativity and Service
- Extended Essay

Group 1: Studies in Language and Literature
- English Language and Literature HL- 2 years
- English Literature and Performance SL- 1 Year

Group 2: Language Acquisition
- Chinese Language B SL- 2 years
- French Language B SL- 2 years/HL- 2 years
- German Language B SL- 2 years/HL- 2 years
- Spanish Language B SL- 2 years/HL- 2 years

Group 3: Individuals and Societies
- Business Management SL- 1 year
- Global Politics SL- 1 year
- History HL-2 years
- Psychology SL- 1 year
- Environmental Systems and Societies SL- 1 year (Also group 4)

Group 4: Experimental Sciences
- Chemistry HL- 2 years
- Computer Science SL- 1 year/HL- 2 year
- Environmental Systems and Societies SL- 1 year (Also group 3)
- Physics SL- 1 year
- Sports, Exercise and Health Science SL- 1 year/HL- 2 years

Group 5: Mathematics
- Mathematics: Analysis and Approaches SL- 1 year/HL- 2 years
- Mathematics: Applications and Interpretation SL- 1 year

Group 6: Arts and Electives
- Visual Arts SL- 2 years/HL - 2 years
- Or any additional IB course (1-year or 2-year) can be chosen to satisfy the group 6 requirement

For IB Organization Course Descriptions, visit: http://ibo.org

Students have the opportunity to participate and complete IB assessments to earn benefits, such as college credit where applicable, when enrolled in an IB course. Students who are working towards earning an IB Diploma must complete and pay for the six required IB courses. Students are able to take additional IB courses and participate in the corresponding assessments, but only six will be factored into earning the IB Diploma. There is one IB subject fee that is associated with the multiple IB assessments for each IB course. All IB fees are due by October 15 during the tested year of that course. Any questions or concerns regarding payment of these IB fees, please contact your student's school counselor.

INTERNATIONAL BACCALAUREATE PROGRAM

Benefits of the IB Program

- Global Awareness and Internationalism
  - The IB Program emphasizes global awareness and intercultural understanding.
- International Standards
  - IB students and teachers use the same curriculum that is used in IB schools in more than 147 countries around the world.
- Preparation for College
  - The IB Program is known for its excellent college preparation and students are well prepared to meet the demands of college coursework. Diploma students are often given preferential consideration in admission.
- Unique Assessments
  - IB students not only have a culminating assessment at the end of the course, but also demonstrate their learning through assessments such as laboratory reports, portfolios, performances, and/or research papers.
- Interdisciplinary Learning
  - Students participating in the IB Diploma Program have the benefit of interdisciplinary study in which there is integration of course material across the curriculum.
- Research Skills and Inquiry
  - The IB Program and IB courses emphasize sophisticated research skills and engage students in inquiry-based learning.

Frequently Asked Questions of the IB Program

- *What are "higher level" and "standard level" IB courses?*
  - There are two levels of IB courses – higher level (HL) and standard level (SL). The higher-level courses have a required number of class hours, which corresponds to two school years in length. Higher-level courses have a more prescribed in-depth level curriculum than standard level courses. The standard level courses are required to be at least one school year in length, but many extend across two years.

- *Can a student take IB courses without participating in the Diploma Program?*
  - While the full Diploma Program is the foundation of the International Baccalaureate Program, the International Baccalaureate Organization allows students to take individual IB courses without participating in the full Diploma Program.
  - With the relocation of the IB Program to Emerald Campus, it is beneficial for students to consider taking 2 or 3 IB courses in a block to maximize their experience at Emerald Campus as well as their home high school.
  - Although the IB Core (including Theory of Knowledge, Creativity Activity Service, and an Extended Essay) is required for full IB Diploma students, students participating in four or more IB courses during the junior and senior years may also take the IB Core.

- *What do the IB scores mean? How do students earn the IB Diploma?*
  - Students have prescribed IB assessments for each IB course and earn a score from the International Baccalaureate Organization based on their performance on these IB assessments. Students earn a score from 1 – 7 in each IB course. Many universities often use a score of "4" or "5" as the minimum for granting admission or advanced course placement. To be awarded an International Baccalaureate Diploma, students must earn a minimum cumulative score of 24 in their courses, and must have required scores in accordance with the scoring rules set by the International Baccalaureate Organization.

INTERNATIONAL BACCALAUREATE PROGRAM

IB DIPLOMA PROGRAM CORE CURRICULUM

Students seeking to earn the IB Diploma must enroll in a course from each of the six subject groups and also complete the IB Core course components. The IB Core course is comprised of the following three required components: Theory of Knowledge, Creativity Activity and Service, and Extended Essay, which collectively aim to broaden students' educational experience and develop inquiring and caring young people. Students participating in four or more IB courses over the junior and senior year may also schedule the IB Core. This course fulfills the IB Core requirement for the IB Diploma.

The IB Diploma Program Core Curriculum- 501 - Year 1 / 502 - Year 2

Grading: AP / IB / CCP Weight Grades: 11-12 Time Frame: 2 Years Credits: 0.5 Credits Year 1 / 0.5 Credits Year 2

****IB Theory of Knowledge (ToK)**

This course provides an opportunity to explore and reflect on the nature of knowledge and the process of knowing. This course is centered around the exploration of contestable knowledge questions. Through discussions, journal entries, essays and oral presentations, students will demonstrate their critical thinking skills by examining the relationships of various areas of knowledge and integrating different disciplines. This course is two years in length, in which students are encouraged to complete all internal assessments and concludes with students completing the corresponding IB assessments.

****IB Creativity, Activity, and Service (CAS)**

CAS takes seriously the importance of life outside the world of scholarship, seeking to counterbalance the academic demands of the school curriculum. Participation in CAS encourages students to share their interests and special talents while developing awareness, concern and the ability to work cooperatively with others.

****IB Extended Essay (EE)**

The extended essay encompasses independent, self-directed research culminating in a 4,000-word paper. Students have the opportunity to engage in an in-depth study of a topic of interest chosen from any of the IB subjects with the support, advice, and guidance of an IB teacher supervisor.

**Offered only at Emerald Campus, travel required with transportation available.

COLLEGE CREDIT PLUS

College Credit Plus

College Credit Plus (CCP) is a program that gives students in grades 7-12 an opportunity to be enrolled in both district and college/university coursework at the same time with tuition, textbooks and other associated fees covered by Dublin City Schools.

Students must meet eligibility criteria and complete necessary application requirements per ORC 3365, including an intent to participate and a yearly mandatory student/guardian meeting. Students may take CCP courses offered at Emerald Campus or on a campus at a participating institution, such as Columbus State Community College and The Ohio State University. Per HB 487, CCP courses must receive the equivalent weight as any weighted course within a given content area and grades will be factored into the student's high school GPA included on the student's Dublin City Schools transcript. CCP courses are transferable to many public and private institutions in Ohio and out of state. To help students fully understand what courses will transfer visit: https://www.transferology.com/index.htm.

Students who fail to complete a CCP course (which may include course withdrawal after deadlines and course failure) may be subject to any financial obligation assumed by the Board for the respective CCP course, including tuition, books, and fees. Please see additional CCP information.

Further information about CCP can be found on the district website under High School Families. Parents and students are encouraged to review the information about dates, eligibility, readiness, enrollment and maximum credits online. Students taking off campus CCP classes should see instructions for course selection on the district website.

Students interested in participating in the CCP courses at Emerald Campus should complete the necessary steps during high school scheduling.

- Participate in a CCP parent and student information session
- Apply to Columbus State as a college credit plus student
- Complete the Letter of Intent (By April 1st each year)
- Add eligible courses to your Dublin schedule
- Complete the required permission and consent forms
- Complete Selective Service application if applicable

Students have many options for CCP participation. One of those, Early College Academy, is a partnership between Dublin City Schools and Columbus State Community College (CSCC). Additionally, there are other CSCC college credit offerings available at Emerald Campus. These courses that are held at Emerald Campus are official Columbus State courses and managed by Columbus State. Courses may be taught by CSCC college faculty that visit the campus and are employed by CSCC or from a high school credentialed teacher considered a CSCC faculty. Offering CSCC courses at the Emerald Campus depends on student enrollment, classroom space, and instructor availability. Eligibility requirements include college acceptance, meeting prerequisites, residency eligibility, and selective service application (for males 18 or older).

College Credit Plus Offerings at Emerald Campus Include:

- Early College Academy - Composition I, Composition II, Psychology, or Sociology
- Arabic Language Studies - Arabic I and II
- American Sign Language (ASL) - Beginning ASL I and II
- Math Studies - College Algebra, Trigonometry, Calculus I, Calculus II
- Select Academies include CCP coursework

COLUMBUS STATE COMMUNITY COLLEGE

ACADEMY OPTIONS

EARLY COLLEGE ACADEMY

Students interested in a comprehensive early college experience earn college credit in four semester college courses and participate in a semester or year-long college and career readiness seminar at Emerald Campus. This rigorous experience is aimed at enhancing students' career readiness and postsecondary success. Participation is recommended for highly motivated juniors or seniors who are willing to complete self-directed assignments outside of class. *Prerequisites: Eng II, H Eng II, or AP American Studies recommended w/3.00 unweighted GPA or eligibility score (ACT: 18+; SAT: 480+; Accuplacer Writing 5+ w/any reading score)*

Available in the 2-period blocked Early College Academy are four College Credit Plus courses and one seminar:

- Composition I (1 semester): 3 CSCC credits = 1 high school credit
- Composition II (1 semester): 3 CSCC credits = 1 high school credit
- Introduction to Psychology (1 semester): 3 CSCC credits = 1 high school credit
- Introduction to Sociology (1 semester): 3 CSCC credits = 1 high school credit
- College and Career Readiness Seminar: 0.25 high school credit per semester

Total credits offered are 12 semester CSCC college credits and 4.5 high school credits.

Students can choose to participate for one or two semesters, but must select from the following options to ensure they can make the most of the programming and the high school experience.

All Year Option:
Option A018: College and Career Readiness Seminar, CSCC Composition I and II, CSCC Introduction to Psychology, and CSCC Introduction to Sociology

First Semester Options:
Option A010: College and Career Readiness Seminar, CSCC College Composition I, and CSCC Introduction to Psychology
Option A011: College and Career Readiness Seminar, CSCC College Composition I, and CSCC Introduction to Sociology

Second Semester Options: (For students who have previously taken CSCC College Composition I)
Option A012: College and Career Readiness Seminar, CSCC College Composition II, and CSCC Introduction to Psychology
Option A014: College and Career Readiness Seminar, CSCC College Composition II, and CSCC Introduction to Sociology

A sample student schedule for a semester of the Early College Academy:

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
College Composition Day 1 2 Period Block	College Psychology Day 1 2 Period Block	College Composition Day 2 2 Period Block	College Psychology Day 2 2 Period Block	Seminar 1 Period Office Hours 1 Period

For students selecting the opportunity as a one semester experience, the Young Professionals Academy offers a great opportunity for students to maximize the high school programming options for the opposing semester.

EARLY COLLEGE ACADEMY

The Early College Academy is comprised of the following courses:

**College and Career Readiness Seminar - 9701/9702

Graded: S/U Grades: 9-12 Time Frame: Year (1 day a week) Credit: 0.25 per semester

Co-requisite: Participation in College Composition I or II, Introduction to Psychology, and Introduction to Sociology at Emerald Campus requires this for enrollment.

This course meets once a week in a seminar format to learn about the skills, knowledge, and habits needed by high school students to be college and career ready. Students will focus on their aptitudes and interests in order to develop and plan for potential college and career readiness pathways. Students will reflect on personal plans, consider financial commitments, and learn professional skills. Personal products will include resumes, portfolios, and digital profiles. **Only students registered for the Early College Academy may participate in this course.**

**CSCC College Composition I (ENG 1100) - CSENG1100

Graded: AP/IB/CCP Weight Grades: 9-12 Time Frame: First Semester (2 days a week) Credit: 3.0 College credits (1.0 HS credit)

Prerequisite: 3.000 unweighted GPA or Eligibility score (ACT: 18+; SAT: 480+; Accuplacer Writing 5+ w/any reading score)
Corequisite: Participation at Emerald Campus also requires the registration in the College and Career Readiness Seminar and either Introduction to Psychology or Introduction to Sociology.

English 1100 is a writing-centered course that recognizes linguistic and cultural diversity through course materials and activities. Assignments invite students to analyze the contexts of writing tasks and compose for different purposes, audiences, genres, mediums, and technologies. Students engage in critical questioning, reading, and researching as they plan, draft, review, revise, and reflect on their writing. The course helps students practice processes and habits of mind that they can apply to the diverse writing situations they'll encounter in college and beyond. **This course fulfills one of the high school English graduation requirements. Only students registered for the Early College Academy may participate in this course.**

**CSCC College Composition II (ENG 2367) - CSENG2367

Graded: AP/IB/CCP Weight Grades: 9-12 Time Frame: Second Semester (2 days a week) Credit: 3.0 College credits (1.0 HS credit)

Prerequisite: 3.000 unweighted GPA or ENG 1100 with a minimum grade of "C" or a score of 4 or higher on the AP Lang or Lit exam
Corequisite: Participation at Emerald Campus also requires registration in the College and Career Readiness Seminar and either Introduction to Psychology or Introduction to Sociology.

English 2367 is an extension of English 1100. It is an intermediate writing-centered course that recognizes linguistic and cultural diversity through course materials and activities. Assignments invite students to analyze the contexts of writing tasks and compose for different purposes, audiences, genres, mediums, and technologies. Students further engage in critical questioning, reading, and researching as they plan, draft, review, revise, and reflect on their writing. The course helps students refine processes and habits of mind that they can apply to the diverse writing situations they'll encounter in college and beyond. **This course fulfills one of the high school English graduation requirements. Only students registered for the Early College Academy may participate in this course.**

EARLY COLLEGE ACADEMY

Early College Academy (Continued)

**CSCC Introduction to Psychology (PSY 1100) – CSPSY1100

Graded: AP/IB/CCP Weight Grades: 9-12 Time Frame: First or Second Semester (2 days a week)
Credit: 3.0 College credits (1.0 HS credit)

Prerequisite: 3.000 unweighted GPA or Eligibility scores (ACT: 18+; SAT: 480+; Accuplacer Writing 5+ w/any reading score)
Corequisite: Participation at Emerald Campus also requires registration in the College and Career Readiness Seminar and either College Composition I or II.

This introductory course provides a broad survey of psychological science including biological bases of behavior, sensation, perception, consciousness, memory, learning, cognition, motivation, emotion, human development, diversity, stress, personality, social psychology, psychological disorders, and therapies. Students will explore how psychological principles relate to the daily human experience, with an emphasis on individual and cultural differences and similarities. . **Only students registered for the Early College Academy may participate in this course.**

**CSCC Introduction to Sociology (SOC 1101) – CSSOC1101

Graded: AP/IB/CCP Weight Grades: 9-12 Time Frame: First or Second Semester (2 days a week)
Credit: 3.0 College credits (1.0 HS credit)

Prerequisite: 3.000 unweighted GPA or Eligibility scores (ACT: 18+; SAT: 480+; Accuplacer Writing 5+ w/any reading score)
Corequisite: Participation at Emerald Campus also requires registration in the College and Career Readiness Seminar and either College Composition I or II.

This course introduces the basic concepts and methods of sociology as a scientific discipline. The sociological perspective, emphasizing social interaction and structure, is used to explore the following topics: culture; socialization; social groups, including organizations; deviance; various types of social inequality; major social institutions; collective behavior, social movement and social change. **Only students registered for the Early College Academy may participate in this course.**

ACADEMY OPTIONS

The Emerald Campus Academy Pathways are designed to engage students in immersive learning environments connected to college and career pathways. Emerald Campus Academies will provide a variety of relevant learning experiences in order to educate and prepare students for post-secondary success. Students are advised to use YouScience, SchooLinks and other tools to help them identify their individual strengths and interests to select possible pathways clusters below. Academy options are organized below into 6 career community clusters. Dublin Internship Program options are listed at the end of the academy option section.

ARTS AND COMMUNICATION CLUSTER

Media Marketing Academy - A110/A111

Students will prepare for careers in photography, videography, graphic design or social media marketing. Students will utilize industry standard software and equipment to produce and manipulate digital photos, video and graphics for social media marketing to develop personal branding. Students will take part in local, regional, state, and national competitions and will develop real-world skills from industry experts throughout Central Ohio. Students will apply their skills by creating online media for both internal and external clients and through internship experiences. Students will also learn the business of arts and communication and network with professionals in an evolving gig economy. Students will have the opportunity to participate in College Credit Plus. Offering College Credit Plus depends on instructor availability. Lab fees include membership dues for Business Professionals of America.

***Possible Credentials**: Adobe Photoshop, Premiere, Illustrator and/or After Effects, HubSpot*

As part of the academy, students have two options for credit: Tolles or CCP courses.

Students interested in earning CCP credit must be eligible by completing the following requirements:

- Participate in a counseling session
- Apply as a college credit plus student
- Complete the Letter of Intent (By April 1st each year)
- Add eligible courses to your Dublin schedule
- Complete the required permission and consent forms

Media Marketing Academy	
Year 1 - A110	**Year 2 - A111**
2 periods/day Grades: 9-12	2 periods/day Grades: 10-12 (repeatable)
Credits: 2.5 HS credits Optional 5 College credits	Credits: 2.5 HS credits Optional 3 College credits

ACADEMY OPTIONS

ARTS AND COMMUNICATION CLUSTER

The Media Marketing Academy is comprised of the following courses:

Year 1 - A110

Arts and Communications Capstone- 054
Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 0.5 HS credit (Repeatable)

Students will learn the skills to produce online content, manage social media accounts across multiple platforms and plan marketing campaigns that will be promoted through social media and other online platforms. Students learn and apply intellectual property rights, licensing, copyright law/ethics, royalties, liabilities, social media writing structure, media analysis, and contractual agreements. They learn how both profit and non-profit organization businesses operate.

Visual and Video Creations

Students learn to develop a keen eye for detail, design principles and styles of art as well as the basics of video production for visual communications. Students learn the principles of proper composition, color theory and typography for graphics and video production. They create designs targeted for the internet while adhering to copyright laws and deadlines.

Students have the option to take this course for college credit or as a conventional high school credit:

Option 1: College Credit: Clark State College Intro New Media - CSCNVM1000
Graded: CCP Weight Grades: 9-12 Time Frame: First Semester (2 periods/day) Credit: 2.0 College credits (.67 HS credit)
Prerequisite: See prerequisites above for placement through Clark State College

Option 2: No College Credit: Visual and Video Creations - 0591
Graded: Conventional Grades: 9-12 Time Frame: First Semester (2 periods/day) Credit: 1.0 HS credit

Media for Advertising & Communications

Creators and producers of graphic images, photography & video production must understand how to integrate and adapt media for marketing purposes. Students research and analyze the power of visuals in advertising campaigns and social media marketing. Using the principles of advertising and visual communications, they develop strategies and products for specific purposes and audiences. They integrate logos, images and media strategically to create content for social media.

Students have the option to take this course for college credit or as a conventional high school credit:

Option 1: College Credit: Clark State College Intro to Social Media - CSCNVM1010
Graded: CCP Weight Grades: 9-12 Time Frame: Second Semester (2 periods/day) Credit: 3.0 College credits (1.0 HS credit)
Prerequisite: See prerequisites above for placement through Clark State College

Option 2: No College Credit: Media for Advertising & Communications - 0522
Graded: Conventional Grades: 9-12 Time Frame: Second Semester (2 periods/day) Credit: 1.0 HS credit
Prerequisite: None

ARTS AND COMMUNICATION CLUSTER

Media Marketing Academy - (Continued)

Year 2 - A111

Arts and Communications Capstone- 054

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 0.5 HS credit (Repeatable)

Students will learn the skills to produce online content, manage social media accounts across multiple platforms and plan marketing campaigns that will be promoted through social media and other online platforms. Students learn and apply intellectual property rights, licensing, copyright law/ethics, royalties, liabilities, social media writing structure, media analysis, and contractual agreements. They learn how both profit and non-profit organization businesses operate.

Digital Image Production & Editing

This course focuses on creating and manipulating images for online media. Students delve into the world of taking digital photos as well as editing digital images and illustrations. Students learn to adjust resolution and exposure, modify color, compress data and format and manage files for online media. Students will use problem-solving strategies and work collaboratively to complete the creative process using industry standard software and equipment. Students have the opportunity to earn their Adobe Photoshop and Adobe Illustrators Certifications as part of this course.

Students have the option to take this course for college credit or as a conventional high school credit:

Option 1: College Credit: Clark State College Digital Aesthetics and User Experience - CSCNVM1005

Graded: CCP Weight Grades: 10-12 Time Frame: First Semester (2 periods/day) Credit: 3.0 College credits (1.0 HS credit)
Prerequisite: See prerequisites above for placement through Clark State College

Option 2: No College Credit: Digital Image Production & Editing - 0581

Graded: Conventional Grades: 10-12 Time Frame: First Semester (2 periods/day) Credit: 1.0 HS credit
Prerequisite: Media Marketing Academy I

Video Production - 0532

Graded: Conventional Grades: 10-12 Time Frame: Second Semester (2 periods/day) Credit: 1.0 HS credit
Prerequisite: Media Marketing Academy I

This course focuses on video production for commercial use. Students plan and coordinate work with clients to produce projects on a tight timeline. They learn how to read and interpret a script, select and maintain equipment and combine graphics, text and special effects for various media platforms. Skills attained include pre-production documentation and planning; in-production audio and video recording; and post-production editing, special effects and distribution. Students have the opportunity to earn their Adobe Premiere Certification as part of this course.

ACADEMY OPTIONS

BUSINESS CLUSTER

Dublin Business Academy - A115

The Dublin Business Academy (DBA) provides students with an opportunity for a head-start on the path to a successful career in business. Students will engage in experiential learning through operating an existing full-service screen-printing and design company and community professional networking and site visits. This unique and challenging non-traditional program is for students interested in all areas of business. Experienced teachers, along with community business members, will guide students through the day-to-day operations of this real-world business. DBA students will contribute and study a variety of aspects including: accounting, creating financial reports, sales, graphic design, business communications, advertising marketing, marketing principles, customer service, operations, talent management and management strategies.

Dublin Business Academy - A115
2 periods/day Grades: 11-12
Credits: 2 HS credits

The Dublin Business Academy is comprised of the following courses:

Business Foundations – 422

Graded: Conventional Grades: 11-12 Time Frame: Year Credit: 1.0

This is the first course for the Business and Administrative Services, Finance and Marketing career fields. It introduces students to specializations within the three career fields. Students will obtain knowledge and skills in fundamental business activities. They will acquire knowledge of business processes, economics and business relationships. Students will use technology to synthesize and share business information. Employability skills, leadership and communications and personal financial literacy will be addressed.

Business Management – 423

Graded: Conventional Grades: 11-12 Time Frame: First Semester Credit: 0.5

Students will apply management and motivation theories to plan, organize and direct staff toward goal achievement. They will learn to manage a workforce, lead change, and build relationships with employees and customers. Students will engage in experiential learning through operating an existing full-service screen-printing and design company, community professional networking, and site visits.

Applied Marketing – 424

Graded: Conventional Grades: 11-12 Time Frame: Second Semester Credit: 0.5

Students will obtain fundamental knowledge of marketing activities, including sales channels, marketing-information management, marketing research, market planning, marketing communications, pricing, product and service management, branding and selling. They will conduct marketing research, identify target markets, conduct market and competitive analyses, forecast sales, set marketing goals, establish a marketing budget and develop a marketing plan. Legal and ethical issues in marketing will be addressed. Employability skills, technology, leadership and communications will be incorporated in classroom activities.

ACADEMY OPTIONS

BUSINESS CLUSTER

Entrepreneurship Academy - A125

Students interested in entrepreneurship will learn foundational knowledge tailored to starting and growing a business. Students in this project-based course will practice Design Thinking applied to planning, creating and presenting ideas with confidence. Students will engage in real-world learning with business professionals and mentors and develop an entrepreneurial mindset, skills and behaviors.

Entrepreneurship Academy - A125
2 periods/day Grades: 11-12
Credits: 2.5 HS credits

The Dublin Entrepreneurship Academy is comprised of the following courses:

Innovative Research and Design Field Experience – 448

Graded: Conventional Grades: 11-12 Time Frame: Year Credit: 1.0

This is an applied field experience that will allow students to explore the ideation cycle, product concept, customer validation, and market research components to their own personal business model. Students will study and apply Design Thinking skills in a variety of ways which may include: completing Design Lab Challenges, developing solutions for our community and society, and creating their own start-up concept. Students will explore their personal interest and aptitude in the field of business, create a professional profile, and learn to network. This class focuses on the skills of collaboration, communication, and problem-solving through an entrepreneurial lens in real-world, hands-on situations.

Strategic Entrepreneurship – 449

Graded: Conventional Grades: 11-12 Time Frame: Year Credit: 1.0

Students will use innovation skills to generate ideas for new products and services, evaluate the feasibility of ideas, and develop a strategy for commercialization. They will use technology to select target markets, profile target customers, define the venture's mission, and create business plans. Students will take initial steps to establish a business. Students will calculate and forecast costs, breakeven, and sales. Establishing a brand, setting prices, promoting products, and managing customer relationships will be emphasized.

Entrepreneurship Capstone - 450

Graded: Conventional Grades: 11-12 Time Frame: Second Semester Credit: 0.5

Students apply entrepreneurship program knowledge and skills in a more comprehensive and authentic way.
Capstones are project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through partnerships, students combine classroom learning with work experience to benefit themselves and others. These can take the form of mentorship employment, cooperative education, apprenticeships and internships.

ACADEMY OPTIONS

EDUCATION, HOSPITALITY AND HUMAN SERVICES CLUSTER

Dublin Teacher Academy - A130/A131

The Dublin Teacher Academy (DTA) is a junior and senior year program that will give students the opportunity to get a head start on the path to a successful career in education. Dublin Teachers Academy is a State of Ohio approved pre-apprenticeship program. Students will be able to earn the Industry Recognized Credential Seal.

In addition to site visits and internships, students will attend seminar and blended days at Emerald Campus.

Upon successful completion of this academy, students will have the opportunity to receive the College Technical Assurance Guide (CTAG) credit to any Ohio public university for applicable education courses.

Additional Credentials Possible: *CPR Certification, First Aid Certification, Paraprofessional Certification*

Dublin Teacher Academy	
Year 1 - A130	**Year 2 - A131**
2 periods/day Grades: 11	2 periods/day Grades: 12
Credits: 2.5 HS credits	Credits: 2.5 HS credits

The Dublin Teacher Academy is comprised of the following courses:

Year 1: Dublin Teacher Academy – A130

Graded: 5.0 Weight Grade: 11-12 Time Frame: Year (2 periods/day) Credit: 2.5

Content to be covered will include Foundations of Education and Classroom Management. Students will also learn from guest speakers, classroom visits and participate in the student leadership organization, Educators Rising. This course will give students the opportunity to experience the career of education in multiple internships guided by experienced DCS teachers. Upon successful completion of the DTA Year 1 Program, students will be accepted into the DTA Year 2 Program if they choose to participate.

Year 2: Dublin Teacher Academy – A131

Graded: 5.0 Weight Grade: 12 Time Frame: Year (2 periods/day) Credit: 2.5
Prerequisite: DTA Year 1 is recommended

Content to be covered will include Communities, Schools, and Stakeholders, CPR and First Aid certification, and Education Principles, which includes professional web page development and a digital portfolio to document learning. Students will experience membership in the professional student leadership organization, Educators Rising, as well as participate in multiple internships guided by experienced DCS teachers. Internships include early childhood, middle-childhood, and special needs classrooms, as well as a choice internship which will give a chance to experience other careers in education. Upon successful completion of this course and WebXams, students will receive 2.5 high school credits plus a possible 2-4 semester hours of Career Technical Assurance Guide (CTAG) credit at any Ohio Public University for Education 101.

ACADEMY OPTIONS

EDUCATION, HOSPITALITY AND HUMAN SERVICES CLUSTERS

Hospitality Academy - A150

In partnership with Visit Dublin, students in this academy will engage in a comprehensive curriculum designed to prepare them for post-secondary pathways in travel, tourism and hospitality. Students will participate in hands-on, immersive learning environments through experiences with community partners in the Bridge Park area of Dublin. Students will have access to real-world, real-time learning through projects, connections to industry professionals and site-based visits. Students may have the option to enroll in CCP courses as part of this academy.

Upon successful completion of this academy, students will have the opportunity to receive the College Technical Assurance Guide (CTAG) credit to any Ohio public university for applicable hospitality courses.

Possible Credentials: *ServSafe and Rise-Up Customer Service*

Hospitality Academy- A150
2 periods/day Grades: 11-12
Credits: 2.5 HS credits Optional 1.0 College Credit (0.33 HS credit)

The Hospitality Academy is comprised of the following courses:

Hospitality Fundamentals- 731

Graded: 5.0 Weight | Grades: 11-12 | Time Frame: First Semester (2 periods/day) | Credit: 1.0 HS credit

A comprehensive look at the fascinating and challenging related fields in the hospitality industry: travel & tourism, lodging, food service, meetings, conventions and expositions, leisure and recreation. Customer service is emphasized, while industry guest speakers, field trips, and study of trade publications and extensive research provide information on industry trends and career opportunities.

College Credit: CSCC Hospitality 1101- CSHOSP1101 (Optional)

Graded: CCP Weight | Grades: 11-12 | Time Frame: First Semester | Credit: 1.0 College credits (0.33 HS credit)

Prerequisite: See prerequisites above for placement through CSCC
A comprehensive look at the fascinating and challenging related fields in the hospitality industry: travel & tourism, lodging, food service, meetings, conventions and expositions, leisure and recreation. Customer service is emphasized, while industry guest speakers, field trips, and study of trade publications and extensive research provide information on industry trends and career opportunities.

Hospitality Management - 732

Graded: 5.0 Weight | Grades: 11-12 | Time Frame: Second Semester (2 periods/day) | Credit: 1.0 HS credit

This course equips students with the essential leadership, management, and organizational skills needed to thrive in the dynamic hospitality industry. Students will focus on key areas such as effective leadership, strategic planning, informed decision-making, and quality control. Students will prepare for various roles within the hospitality industry, from managing hotels and restaurants to planning events and marketing destinations.

Hospitality and Tourism Capstone - 733

Graded: 5.0 Weight | Grades: 11-12 | Time Frame: Year | Credit: 0.5 HS credit

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in the program in a more comprehensive and authentic way. Capstones often include project/problem based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

ACADEMY OPTIONS

ENGINEERING, TECHNOLOGY AND TRANSPORTATION CLUSTER

Engineering Academy - A155

Students interested in engineering, or who want to explore whether engineering will interest them, learn university and industry- standard software packages in 3D design, data analysis, programming and circuitry through hands-on collaborative design thinking projects.

Students considering participating in this academy in the future may benefit from exposure to valuable content addressed in the Cybersecurity, Engineering and IT Fundamentals (444) offered at each high school.

As part of the academy, students have two options for credit: Dublin or CSCC courses. Students interested in earning CSCC CCP credit must be eligible by completing the following requirements:

- Participate in a counseling session
- Apply to Columbus State as a college credit plus student
- Pass the Columbus State math entrance assessment (which requires adequate knowledge of Algebra II) in order to be eligible for some of the college credit courses
- Complete the Letter of Intent (By April 1st each year)
- Add eligible courses to your Dublin schedule
- Complete the required permission and consent forms

Engineering Academy - A155
2 periods/day Grade: 10-12
Credits: 2.5 HS credit Optional 3 College credits

The Engineering Academy is comprised of the following courses:

Fundamentals of Engineering- 301

Graded: Conventional Grades: 10-12 Time Frame: First Semester Credit: 1.0 HS credit
Algebra II Recommended

This survey course of engineering exposes students to major concepts they will encounter in a postsecondary engineering or engineering technology course of study. Students employ engineering and scientific concepts in the solution of engineering design problems. The students will develop strong problem-solving skills, from design through prototyping and testing. An emphasis will be placed on documenting and communicating solutions.

Electricity, Electronics and Control Systems

This course focuses on the fundamentals of electrical engineering and electronics. From circuit design to integrated circuits to programming microcontrollers, this course focuses on developing students' skill in working with modern digital electronic systems. Students employ their skills in a series of projects, with a pair of larger projects tying concepts together. Students also develop their computer programming skills.

Students have the option to take this course for college credit or as a conventional high school credit:

Option 1: College Credit - CSCC Basic DC Electronic Systems - CSEET1105

Graded: AP / IB / CCP Weight Grades: 10-12 Time Frame: Second Semester Credit: 3.0 College credits (1.0 HS credit)
Prerequisite: See prerequisites above for placement through CSCC
A or B in Alg II or Honors Alg II - OR - ACT Math: 22+/SAT Math: 530 ALEKS 46+

Option 2: No College Credit -Electricity, Electronics and Control Systems - 302

Graded: Conventional Grades: 10-12 Time Frame: Second Semester Credit: 1.0 HS credit
Algebra II Recommended

Mathematical Models and Data Analysis - 305

Graded: Conventional Grades: 10-12 Time Frame: Year Credit: 0.5
Algebra II Recommended

In this course, students will discover and/or develop the mathematical models for the engineering projects they undertake. This includes everything from modeling the torque, speed and lost energy from the drive train gear box, to creating sophisticated computer models of physical systems. Students will explore and use the mathematical logic models that underpin modern computer science. Students in the course will also collect and analyze data for their projects. They will learn about selecting appropriate metrics, using and calibrating measurement devices and using software such as MatLab, R, Excel or Python to analyze the data collected. They will use collected data to evaluate their models and the engineering solutions they develop.

ACADEMY OPTIONS

ENGINEERING, TECHNOLOGY AND TRANSPORTATION CLUSTER

Cyber and Information Technology Academy Options:

The Cyber and IT Academies are for students interested in the rapidly advancing fields of Cybersecurity and Information Technology. In year 1, students participate in classes in their home building, leading them to choices in Cyber and/or IT at Emerald Campus during their second year of study.

Credentials Possible: *CompTia ITF+, CompTia A+, CompTia Network+, and others as it relates to individual students' course work.*

<table>
<tr><th colspan="2">Cyber and Information Technology Academy Year 1- A160</th></tr>
<tr><td colspan="2">1 period/day
(offered at home high school)
Grades: 9-12
Credits: 1.0 HS Credit</td></tr>
<tr><th>Cyber Academy Year 2- A161</th><th>Information Technology Academy Year 2- A165</th></tr>
<tr><td>2 periods/day
(offered at Emerald Campus)
Grades: 10-12</td><td>2 periods/day
(offered at Emerald Campus)
Grades: 10-12</td></tr>
<tr><td>Credits: 2.5 HS credits</td><td>Credits: 2.5 HS credits</td></tr>
</table>

Cyber and Informational Technology Year 1 - Offered at home high school - A160

Cybersecurity, Engineering and IT Fundamentals - 444

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5

In this course, students learn valuable skills to get them started in the rapidly developing and advancing fields of cybersecurity, engineering and other areas of information technology. These skills will prepare them for future course work in cybersecurity, engineering and IT-related courses as well as provide content required for valuable certification exams. No prior knowledge of IT or computer science is necessary, just a basic understanding of computers and computer systems. Students complete online learning modules and participate in simulations and authentic, IT related applications. Students may complete the CompTIA Fundamentals certification in this course.

Introduction to Computer Programming – 384

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5

Introduction to Computer Programming provides an introductory study of techniques in programming utilizing Java, C++ and other languages. Topics include structure of programming, input and output, data types and structures, logical operations and loops. Projects assigned will require application of computing resources in a variety of curriculum areas. The class is designed as a programming/lecture/laboratory class with emphasis on programming/debugging. Upon completion of this course the student will have a solid background in program methodology.

ACADEMY OPTIONS

ENGINEERING, TECHNOLOGY AND TRANSPORTATION CLUSTER

Cyber Academy Year 2- Offered at Emerald Campus -A161

The Cyber Academy is for students interested in the rapidly advancing field of Cybersecurity. Students learn skills that prepare them for certification exams and internship potential, setting them apart when applying to post-secondary institutions and/or careers. Students will continue working toward the certifications necessary to be career-ready in the Cybersecurity field. First semester, students will deepen their understanding of the topics covered in Introduction to Cybersecurity and extend to digital forensics and other related security topics. The second semester will focus on a "build your own challenge" experience, where students can define the path and certifications of interest to them, including a potential cybersecurity internship. Students will be expected to complete CompTIA certifications such as, A+ Security+ and plan their cybersecurity future with industry mentors.

The Cyber Academy is comprised of the following courses:

Cybersecurity Defense and Reinforcement – 445

Graded: Conventional Grades: 10-12 Time Frame: First Semester (2 periods/day) Credit: 1.0 (Repeatable)
Prerequisite: Introduction to Cybersecurity

Students learn the process of systematic defense for information technology systems. They apply knowledge and skills required to secure network resources including infrastructure, operating systems, data, and applications. Students apply the knowledge of disaster recovery and business continuity.

Cybersecurity Testing and Response - 446

Graded: Conventional Grades: 10-12 Time Frame: Second Semester (2 periods/day) Credit: 1.0 (Repeatable)
Prerequisite: Introduction to Cybersecurity

Students will apply the skills of systematic testing and planned response to mitigate security concerns in information technology systems. They will describe the need for security, identify and explain security risks, and implement security safeguards. Students will manage threats, deploy countermeasures, and establish strategies to protect business information using risk and incident management.

Cyber Research & Field Experience - 447

Graded: Conventional Grades: 10-12 Time Frame: Year Credit: 0.5 (Repeatable)
Prerequisite: Cyber Academy enrollment and instructor approval

This capstone course provides opportunities for students to apply knowledge and skills that were learned in Cyber Academy in a more comprehensive and authentic way. This capstone experience can include project/problem-based learning opportunities that occur both in and away from school. Under the supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

ACADEMY OPTIONS

ENGINEERING, TECHNOLOGY AND TRANSPORTATION CLUSTER

Information Technology Academy Year 2- Offered at Emerald Campus- A165

Students interested in Information Technology explore software development through a combination of courses in programming languages, web design, databases and more. This foundational course immerses students in the world of app development and design, covering core concepts essential to building and maintaining functional, user-centered applications. Students will engage with key topics, including UI/UX design principles, programming languages, app architecture, API integration, database management, testing, debugging, and deployment strategies. Partnering with local industry experts, students will gain hands-on experience and real-world insights, preparing them for a successful future in technology.

The Information Technology Academy is comprised of the following courses:

Computer and Mobile Applications - 406

Graded: Conventional Grades: 10-12 Time Frame: Year (2 periods/day) Credit: 2.0 HS credit

Students will learn to create applications for mobile devices using a variety of commercial and open source software. They will install these applications, modify them, and develop customer service skills to handle user issues. Knowledge and skills related to customer service in professional offices, small businesses, departments, work groups, and corporate information services will be addressed.

IT Research and Field Experience – 407

Graded: Conventional Grades: 10-12 Time Frame: Year Credit: 0.5 HS credit

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in the Information Technology program in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

ACADEMY OPTIONS

ENGINEERING, TECHNOLOGY AND TRANSPORTATION CLUSTER

Aviation Academy - A170/A171

Students in this academy will explore multiple aspects of the aviation industry and fundamentals in aviation while gaining insight into the many careers available in aviation. By the end of year one, students will be prepared to take the FAA Part 107 remote pilot license exam and the Unmanned Safety Institute (USI) Level One Safety Certificate to take the drone remote pilot license. Year two will prepare students to take the visual line of sight credentials (passing these credentials will help meet graduation requirements).

A limited number of seats are available in this program. If the requests exceed capacity, priority will be based on seniority, then by lottery to participate.

Upon successful completion of both years and passing scores on WebXams, students may receive 3-12 semester hours of Career Technical Assurance Guide (CTAG) credit at any Ohio public university for applicable aviation courses. Courses aim to prepare students to take the written portion of the Private Pilot certification exam.

Credentials Possible: *FAA Part 107 Remote Pilot Certificate, Unmanned Safety Institute (USI) Level One Safety Training, CPR Certification, First Aid Certification.*

Aviation Academy - 2 years	
Year 1 - A170	**Year 2 - A171**
2 periods/day Grades: 10-12	2 periods/day Grades: 11-12
Credits: 2.5 HS credits	Credits: 2.5 HS credits

The Aviation Academy is comprised of the following courses:

Year 1 - A170

Introduction to Aviation Industry - 706

Graded: 5.0 Weight Grades: 10-12 Time Frame: First Semester Credit: 1.0

This course is foundational for both crewed and uncrewed aviation, and will prepare students to take either of two Federal Aviation Administration tests: the Private Pilot Knowledge Test or the Part 107 Remote Pilot Knowledge Test. Topics include: pre-flight procedures, airspace, radio communications, aviation phraseology, regulations, airport operations, aviation safety, aviation weather, cockpit management, and emergency procedures.

Small Uncrewed Aircraft Systems (UAS) Operations - 707

Graded: 5.0 Weight Grades: 10-12 Time Frame: Second Semester Credit: 1.0

This course will cover small uncrewed aircraft performance, ethics, human factors, aeronautical decision-making and judgment, safety protocols, weight and balance, maintenance, aviation weather sources and effects of weather (micro-meteorology) on small unmanned aircraft performance, small unmanned aircraft loading and performance, emergency procedures, crew resource management, and preflight inspection procedures. Students will be provided the opportunity to participate in multiple practice examinations. Students will be prepared to complete the Federal Aviation Administration's Part 107 Remote Pilot Knowledge Test upon completion of this course. *Students will have the opportunity to earn the Remote Pilot 107 sUAS Certification and be prepared to take the written portion of the Private Pilot certification exam through this academy.

ENGINEERING, TECHNOLOGY AND TRANSPORTATION CLUSTER

Year 1 (Continued)

Aviation Research and Field Experience - 704

Graded: 5.0 Weight Grades: 10-12 Time Frame: Year Credit: 0.5

Through a partnership with The Ohio State University Airport, students will gain a behind-the-scenes understanding of the aviation industry through a series of experiential learning opportunities with aviation professionals and organizations. This will include guest speakers, tours, field trips, and assignments focused on the various facets of aviation. In this course, students will begin and continue to develop their own personal goals, professional skills, and a path to a career. Students analyze and document personal interests, talents, skills, aptitudes, and values in order to identify the aviation careers of their choosing. Students experience the day-to-day operations of the career, gain exposure to its related lifestyle, learn about the educational requirements, and begin to build their professional network.

Year 2 - A171

Aviation Airport Management – 710

Graded: 5.0 Weight Grades: 11-12 Time Frame: First Semester Credit: 1.0

Learners will distinguish between controlled and non towered fields and apply management principles to airport environments. Students will interpret and use weather, Automatic Terminal Information Systems (ATIS), and Traffic Collision Avoidance Systems (TCAS) to control aircraft operations. Students will sequence aircraft approaches and departures with approach control radar. Students will interpret and use airport lighting, navigation principles and avionic communication systems including Very High Frequency (VHF), Ultra-High Frequency (UHF), radio and phraseology.

Aviation Meteorology and the Flying Environment - 711

Graded: 5.0 Weight Grades: 11-12 Time Frame: Second Semester Credit: 1.0

Learners apply principles of meteorology forecasting to aviation. Students will take, record, encode, and disseminate surface weather observations using forecasting equipment. Topics include concepts of aviation meteorology in the study of temperature, pressure, moisture, stability, clouds, air masses, fronts, thunderstorms, icing, and fog. Additionally, students will interpret and use weather information for pre-flight and in-flight support to aviation.

Aviation Leadership, Innovation, and Co-op – 712

Graded: 5.0 Weight Grades: 11-12 Time Frame: Year Credit: 0.5
Prerequisites: Aviation Research and Field Experience - 704

This capstone course is the culmination of the student's learning experience throughout this pathway. The students will work as individuals or in small groups to study and report on an approved aviation topic of their choosing. The goal of this capstone course is to allow students to demonstrate an understanding of a contemporary topic in aviation as it relates to UAS Operations. The curriculum will include suggestions for research topics or projects that can be adapted to match available resources.

ACADEMY OPTIONS

HEALTH SCIENCES AND PUBLIC SAFETY CLUSTER

Biomedical Research Academy - A175

The Biomedical Research Academy is an integrated immersion into biology, research, physiology and art. The program is designed for students with a strong interest in careers in the areas of medicine, nursing, research, or other allied health science fields. Students who participate in the Biomedical Research Academy will use a problem-based approach to develop a strong foundation in the practices of biomedical professionals and will gain significant career exposure through regular guest speakers. Each student will design, conduct, and present a year-long individualized biomedical research study. ***This academy fulfills the advanced science graduation requirement.***

***Credentials Possible**: CPR Certification, First Aid Certification*

Participation in this rigorous academy requires students to have a strong academic performance in math and science. A limited number of seats are available in this program. If the requests exceed capacity, priority will be based on seniority and review of academic performance.

Biomedical Research Academy - A175
2 periods/day Grades: 10-12
Credits: 3.0 HS credit

The Biomedical Research Academy is comprised of the following courses:

Advanced Placement Biology – 252

Graded: AP/IB/CCP Weight Grades: 10-12 Time Frame: Year Credit: 1.0 *BIOMED ACADEMY AP BIO IS ONLY 1 Credit
Prerequisite: See above, Biology and Chemistry highly recommended

Advanced Placement Biology parallels a college-level introductory biology course for science majors. It is a one-year course that includes laboratory work, college-level reading, essay writing, and class discussions. It is intended for the student who wishes to obtain a strong background in biology and who intends to take the Advanced Placement Biology examination at the end of the year for possible college credit. Topics of study include: molecular and cellular biology, biochemical concepts, evolution, organismal biology, and population biology.

Body Systems – 253

Graded: Conventional Grades: 10-12 Time Frame: First Semester Credit: 0.5
Prerequisite: See Biomedical Academy Prerequisite

Students examine the processes, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis and wellness. The problem-based approach of the course includes designing experiments, investigating the structures and functions of body systems, and using data collection tools to monitor body functions. Important concepts covered in the course may include coordination/communication (skeletal, muscular, endocrine, and nervous/sensory systems), metabolism (cardiovascular, respiratory and digestive systems), protection (immune and lymphatic systems), and reproduction.

Biomedical Art – 775

Graded: Conventional/Portfolio Grades: 10-12 Time Frame: Year Credit: 0.5
Prerequisite: See Biomedical Academy Prerequisite

Meeting two times a week for one period, students will work with a variety of materials and subject matter and means to create artwork in relation to concepts and experiences connected to the Biomedical Research Academy. Students in this project-based course will explore the connections between art and science and communicate their ideas through the art-making process.

Advanced Research in Science – 240

Graded: Honors Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: 2 Years of Science highly recommended. (0.25 First Semester, 0.75 Second Semester)

This course will facilitate advanced learning of the philosophy of science, research methods, science writing and reporting, statistical analysis of results, lab and/or fieldwork methods, and ethical concerns. This is an individual research course in which students will develop and complete an experimental research project. The student needs to be self-motivated and the teacher will act to facilitate the research work of the student. Considerable work outside the classroom will be necessary and the students will be required to submit and present their research findings. This course is designed to be a culmination of the student's high school science experience.

ACADEMY OPTIONS

HEALTH SCIENCES AND PUBLIC SAFETY CLUSTER

Healthcare Professionals Academy - A180

In partnership with Columbus State Community College and OhioHealth, students in the Healthcare Professionals Academy will engage in a comprehensive curriculum designed to prepare them for post-secondary pathways in healthcare, such as nursing, medical assisting, radiology, and surgical tech. Students will participate in a hands-on, immersive learning environment through Columbus State Coursework and OhioHealth experiences. They will have access to real-world, real-time learning through projects, connections to industry professionals, and site-based visits. Transportation will be provided by Dublin City Schools. Leads to Clinical Lab Assisting Certificate.

Credentials Possible: *Medical Laboratory Technology (MLT), Clinical Laboratory Assisting Certificate, and Phlebotomy.*

Students interested in enrolling in this academy in conjunction with CSCC should complete the necessary steps during high school scheduling:

- Participate in a counseling session
- Apply to Columbus State as a college credit plus student
- Complete the Letter of Intent (By April 1st each year)
- Add eligible courses to your Dublin schedule
- Complete the required permission and consent forms
- MLT CLAS Acknowledgement Form
- Health History Form

Healthcare Professionals Academy
2 periods/day Grades: 11-12
Credits: 2.59 HS credits AND 7.0 College credits

The Healthcare Professionals Academy is comprised of the following courses:

CSCC Intro to Medical Coding and Reimbursement - CSHIMT1274
Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: First Semester (2 Periods/day; 1 day/week) Credit: 2.0 College credits (0.67 HS Credit)

This course provides an overview of hospital- and physician-based medical coding and reimbursement principles.

CSCC Basic Concepts in Health Care - CSMLT1100
Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: First Semester (2 periods/day; 1 day/week) Credit: 2.0 College credits (0.67 HS Credits)

This course provides a general introduction to health care in the U.S. It will cover general topics such as health care past and present, legal and ethical issues, diversity in health care, safety topics, and health industry systems. The course also discusses professional attributes, skills, and qualities needed for success in a healthcare career.

ACADEMY OPTIONS

HEALTH SCIENCES AND PUBLIC SAFETY CLUSTER

Healthcare Professionals Academy - (Continued)

College and Career Readiness Seminar - 970

Graded: S/U Grades: 11-12 Time Frame: First Semester (1 period/day; 1 day/week) Credit: 0.25 HS credit

In this course, students learn about the skills, knowledge, and habits high school students need to be college and career-ready. Students will focus on their aptitudes and interests in order to develop and plan for potential college and career readiness pathways. Students will reflect on personal plans, consider financial commitments, and learn professional skills. Personal products will include resumes, portfolios, and digital profiles. Healthcare Academy students attend the Speaker Series below as a part of their seminar.

OhioHealth Speaker Series Part 1 - 970H

Graded: S/U Grades: 11-12 Time Frame: First Semester (1 period/day; 1 day/week)

Students will attend a speaker series in conjunction with their College and Career Readiness Seminar. OhioHealth will bring in a variety of speakers to help students better understand the medical fields and careers available to them.

CSCC Laboratory Theory for Health Industries- CSMLT1112

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: Second Semester (2 periods/day; 2 days/week) Credit: 2.0 College credits (0.67 HS Credit)

This course is designed to provide theoretical concepts for individuals in health-related industries who may be interested in learning an additional set of medically related skills. This knowledge and skill set is intended to enhance current job proficiency or potentially increase employability in entry-level health-related positions. The course is designed to encourage phlebotomists, medical assistants, nursing assistants, and other health-oriented industry personnel to achieve competencies requiring basic laboratory testing as a part of the facility's services.

CSCC Laboratory Techniques for Health Industries- CSMLT1113

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: Second Semester (2 periods/day; 1 day/week) Credit: 1.0 College credit (0.33 HS Credits)

This course provides the application of theoretical concepts for individuals in health-related industries who may be interested in learning an additional set of medically related skills. This knowledge and skill set is intended to enhance current job proficiency and potentially increase employability in an entry-level health-related position. The course is designed to encourage phlebotomists, medical assistants, nursing assistants, and other health-oriented industry personnel to achieve competencies requiring basic laboratory testing as a part of the facility's services. Since students will be performing lab procedures on their own specimens, students must be willing to submit their own blood and fluid specimens for testing.

OhioHealth Job Shadow Experience - 970S

Graded: Required Hours Grades: 11-12 Time Frame: Second Semester (1 period/day; 2 days/week) Credit: Tied to CSMLT113

Students will get hands-on, real world experience at OhioHealth Medical Campus with the skills and knowledge they have learned through their CSCC courses. This experience will be directly connected to MLT 1113 in giving kids practice with laboratory techniques and preparing them for their Clinical Lab Assisting Certificate. Students will job shadow 1 day a week and attend an Emerald Campus study hall one day a week to complete coursework.

ACADEMY OPTIONS

HEALTH SCIENCES AND PUBLIC SAFETY CLUSTER

Sports Science Academy - A185

The Sports Science Academy (SSA) provides hands-on opportunities for students to gain exposure to careers in sports and health-related fields. Coursework will include anatomy and physiology as it pertains to sports and fitness, evaluating performance through data collection and analysis, and how performance in physical activities can be maximized. Students will have access to technologies similar to those used in research and rehabilitation settings, opportunities to learn from individuals in sports and health-related fields, and author research projects that illustrate their understanding of the concepts learned in the academy.

Credentials Possible: *CPR Certification, First Aid Certification*

Sports Science Academy - A185
2 periods/day Grade: 10-12
Credits: 2.5 HS credit

The Sports Science Academy is comprised of the following courses:

IB Sports, Exercise and Health Science (SL) - 586

Graded: AP/IB/CCP Weight Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Biology and Chemistry are recommended

IB Sports, Exercise and Health Science (SEHS) is an experimental science course that focuses on the form and function of the human body. It is intended for students who want a foundation in how the body performs during physical activity, and the tools and techniques to analyze performance and fitness. Students will cover a range of topics to gain valuable exposure to sports science and health-related fields, as well as carry out practical (experimental) investigations in both laboratory and field settings. Topics will include anatomy (skeletal and muscular systems), exercise physiology, energy systems, movement analysis, the physics of the human body and sports, skill in sports, and measurement and evaluation of human performance. Two optional units in optimizing physiological performance, the psychology of sports, physical activity and health, and nutrition for sports, exercise and health will also be covered. This course is one year in length and is intended to prepare students to complete all internal assessments. Students in the Sports Science Academy and in grades 11-12 have the option of taking the IB Exam in May. **This course fulfills the advanced science graduation requirement.**

Advanced Research in Science - 240

Graded: Honors Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Biology and Chemistry

This course will facilitate advanced learning of the philosophy of science, research methods, science writing and reporting, statistical analysis of results, lab and/or fieldwork methods, and ethical concerns. This is an individual research course in which students will develop and complete an experimental research project. The student needs to be self-motivated and the teacher will act to facilitate the research work of the student. Considerable work outside the classroom will be necessary and the students will be required to submit and present their research findings. This course is designed to be a culmination of the student's high school science experience.

Statistical Analysis in Science - 745

Graded: Conventional Grades: 10-12 Time Frame: Year Credit: 0.5
Prerequisite: 2 Years of high school science highly recommended

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to concepts of experimental design and bias, and the use of spreadsheets for collecting, organizing and analyzing data. The course will also present a number of different statistical and analytical tools, such as descriptive statistics, correlations, hypothesis testing and probability.

ACADEMY OPTIONS

DUBLIN INTERNSHIP PROGRAM

Dublin Cooperative Education Experience

The Dublin Coorperative Education Experience assists students in developing the skills, knowledge, and expertise to succeed in work and life. Through classroom lessons and professional work-place learning experiences (internships); students work to develop the critical thinking, communication, collaboration, creativity, and problem-solving skills required for success in college and careers. Students will earn the OhioMeansJobs-Readiness Seal.

The Dublin Cooperative Education Experience is comprised of the following options:

Young Professional Academy Internship Program (YPA) - A135 (semester option) or A1352 (yearlong option)

Graded: Conventional Grades: 11-12 Time Frame: Semester (2 periods/day) Credit: 1.0 (repeatable up to 3.0 credits)
Location: Emerald Campus and internship worksites

Students analyze and document personal interests, talents, skills, aptitudes, and values in order to select internships in two career fields of their choosing. Through mentorships, students experience the day-to-day operations of the career, gain exposure to its related lifestyle, learn about the educational requirements, and begin to build their professional network. Through class activities, learn about their own abilities and skills, learn to build and leverage networks, and practice durable skills to help them market themselves and their skills for future opportunities in employment, education, enlistment, and entrepreneurship. Students will participate in planning, goal setting, and other skills aligned to the OhioMeansJob- Readiness Seal. Students exit the program armed with internship experience, a web-based portfolio, and durable skills aimed at career readiness. In addition to site visits and internships, students will need to attend seminars and blended days at the Emerald Campus. Any concerns or questions regarding transportation can be addressed with the YPA coordinator(s) prior to starting the course. Students are only permitted to take 2 periods of YPA per semester for up to 3 semesters during junior and senior year.

Dublin Co-op - A145 (semester option) or A1452 (yearlong option)

Graded: Conventional Grade: 12 Time Frame: Semester (Students may be expected to work outside of the student's scheduled day.)
Credit: 0.5 (repeatable up to 2 times)
Location: participating students work with a teacher in their home building. No travel to Emerald Campus is required.

Co-op experiences will allow students to engage in real-world learning and explore potential career pathways. Co-op experiences may take place during or outside the school day and may include site-based or project-based opportunities. Students will be expected to complete onboarding experiences with an assigned co-op advisor prior to starting the co-op experience. Students will participate in planning, goal setting, and other skills aligned to the OhioMeansJob-Readiness Seal. Any concerns or questions regarding transportation can be addressed with the Co-op coordinator(s) prior to starting the course.

DCS VIRTUAL

DCS Virtual offers online courses. Highly qualified DCS teachers monitor these courses. Courses are provided through the learning management system, Schoology. The courses are self-guided, not self-paced. This means you can work ahead of schedule but you must meet course deadlines. When assistance is needed, you will reach out to the teacher of record. Teachers will support you through email, phone calls, or by appointment. DCS Virtual courses do not require real-time interactions. Weekly engagement is required and is used to track attendance per Board Policy 5200. The courses count toward your GPA and yearlong courses have scheduled mid-term exams.

Students enrolled in a DCS Virtual course will have a designated space in their building to work. With parent permission and schedule permitting, students can opt to leave the building during their designated virtual class period. If opting to leave the building, complete this form and turn it in to the school before the start of each semester. Please note, DCS Virtual courses are non-repeatable.

FREQUENTLY ASKED QUESTIONS

How do I know which courses are offered through DCS Virtual?

On the Course Offerings list, DCS Virtual course names are marked with an * and course numbers are marked with a "V".

How many DCS Virtual courses can I take?

The Ohio Department of Education & Workforce states that students engaged in online learning from home for more than 50 percent of the time must be enrolled in an online school. DCS is not an online school, therefore DCS students are permitted to use the following guidelines:

- 9th & 10th graders may schedule for a maximum of 2 DCS Virtual courses (only one of these can be a core course)
- 11th & 12th graders can take DCS Virtual courses up to 50% of their schedule:
  - A student with 5 courses may take 2 virtually.
  - A student with 6 or 7 courses may take 3 virtually.

Do I sit in an actual class at school for this course?

- No, this course is online and completed on your own time with compliance to individual course due dates.
- In the case that a student does not complete this form, students will be assigned a required study hall.

Does this course count towards my GPA?

Yes, this course will be on your report cards, transcripts and counts towards your GPA.

These courses are self-guided. What does that mean?

Students will receive a pacing guide for the course and will be expected to follow the pacing guide and meet the required submission deadlines but can work ahead. Self-guided means that students have the flexibility to work through the learning activities on their own time throughout the week, not at a scheduled synchronous time.

Where do I go to get help?

You will be assigned a teacher for academic and curriculum support. Detailed information on help and support is located in the course materials.

ACADEMIC SUPPORT & LEADERSHIP

Academic Support & Leadership – 9691/9692

Graded: S/U Grades: 9-12 Time Frame: Semester/Year Credit: 0.0

Academic Support & Leadership is a class that students may take to enable them to improve organizational skills, study habits, and academic performance. Students may be required to complete work specifically related to the skills listed above, as well as their own academic work.

Peer Collaboration – 7341/7342

Graded: Ungraded Grades: 9-12 Time Frame: Semester/Year Credit: 0.0

The Peer Collaboration elective course provides students with the opportunity to acquire and enhance leadership, problem solving, critical thinking, communication, and collaboration skills. Peer Collaborators will support other students in various school environments with the primary role of assisting their peers in understanding content, helping them to complete assignments, providing a social partner and serving as a role model. Students will be required to participate in training sessions and to document participation in the program through journaling.

**Bridge Academy - BRDG1/BRDG2

Grade: 9-12 Credits: Credit earned through credit recovery courses
Prerequisite: School Recommendation, Principal review

The Bridge Academy is a student-centered learning community that offers a non-traditional pathway to graduation by personalizing the educational experience through strong school-family partnerships. The academy model encompasses the following key elements: credit recovery opportunities with academic coaching, small-group instruction in select courses with certified teachers, flexible scheduling, and on-site mental health services.

**PATHS Academy - PATHS1/PATHS2

Grade: Diploma deferral Credits: 0.0
Prerequisite: IEP and School Recommendation, Principal review

The PATHS (Postsecondary Access to Transition after High School) Academy is specifically designed for students with Individualized Education Programs (IEPs) who have opted for diploma deferral. Its primary objective is to support students as they pursue additional education or training necessary to achieve their postsecondary goals, as determined by the IEP team. Within PATHS, students actively participate in the development of both vocational and life skills. This comprehensive learning experience includes classroom instruction and community-based learning opportunities. The core of PATHS is rooted in robust partnerships among students, families, program staff, Ohio agencies, and the Dublin Community.

**Offered only at Emerald Campus, travel required with transportation available.

ACADEMIC SUPPORT & LEADERSHIP

WorkForce Ready – A Career Based Intervention Program

WorkForce Ready is a cooperative program in which students explore career and employment outcomes while gaining high school credit through a variety of connected and collaborative experiences. The program goals include; completing the requirements for high school graduation, exploring careers, planning and implementing employment experiences, and enhancing transferable work skills and developing readiness for postsecondary education and/or employment.

Students are required to take a one (1) period course (0.5 credit/per semester). As part of this program, juniors or seniors will participate in work-based learning through gainful employment, and/or internships. Student experiences in employment/internships will be based on student interests, preferences, strengths and areas for personal and vocational skills growth. This part of the program is designed to allow for release time in addition to attending regular classes. Placement requires consultation with the school-based team (i.e., counselor, administrator, WorkForce Ready Instructor).

The WorkForce Ready Program is comprised of the following courses:

WorkForce Ready I - 694

Graded: Conventional Grades: 11-12 Time Frame: Semester Credit: 0.5 (Repeatable)
Prerequisite: School-based team consultation for course placement

The curriculum of the WorkForce Ready instructional component is based on Ohio's work-based learning guidelines and connects academic and career success. The WorkForce Ready program and instruction are a coordinated sequence of experiences designed to provide students with real-world learning through partnerships with local business and industry. These learning activities help a young person explore careers and choose an appropriate career path. WorkForce Ready classroom instruction provides appropriate and effective resources and technology for individual instruction in a smaller group setting that meets students' needs. All Work Force Ready students must complete a minimum of 60 hours of instruction per semester in the WorkForce Ready related instruction course.

WorkForce Ready II - 695

Graded: Conventional Grades: 11 -12 Time Frame: Semester (Students may be expected to work outside of the student's scheduled day.)
Credit: 0.5 (Repeatable up to a maximum of 3.0 credits)
Prerequisite: School-based team consultation for course placement

Credit based on paid cooperative work experiences or non-paid, work-based learning experiences (including but not limited to): job shadowing, short-term field experience, internships, volunteering at non-profit community agencies, career exploration, and/or service learning activities. Participation in 120 hours of work-based learning (orientation, exploration, or employment), earning up to 3 credits per academic year for documented hours.

APPLIED SCIENCES

Introduction to Engineering and Industrial Design (Level 1) – 610

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0

In this introduction course, students will learn about engineering and industrial design concepts and how they are used to solve real world design problems. Students will learn how to communicate their designs by learning to master industry standard 2D/3D virtual modeling software. By utilizing the Engineering Design Process, students will synthesize unique design iterations, document their work through an engineer's notebook, and effectively communicate solutions to peers and members of the professional community.

Engineering and Industrial Design (Level 2) – 611

Graded: Conventional Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Intro to Engineering and Industrial Design (Level 1)

In this course, students will apply foundational engineering and industrial design concepts learned in the introductory course through creating actual solutions to real world, hands-on design challenges. Using the Engineering Design process, students will investigate, research, design, test, develop, evaluate and communicate creative solutions for contemporary problems. Additionally, they will learn how to safely utilize tools and machines in the fabrication lab to transform their designs into actual models and working prototypes that can be tested and evaluated.

Architectural Design and Modeling – 614

Graded: Conventional Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Intro to Engineering and Industrial Design (Level 1)

Students will study the basic architectural drawing techniques of building design. Students will examine and execute plans for basic construction and service systems. Three-dimensional modeling will allow students to assess the validity and appropriateness of their designs.

Product Design and Modeling – 618

Graded: Conventional Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Intro. to Engineering and Industrial Design (Level 1)

Students will study the basic concepts of product and package design. Students will learn how to identify and clarify a problem, make an in-depth response and then create and test their solutions. Human-factors, engineering and production techniques are integral to this course.

Capstone Course: Engineering Research and Internship – 620

Graded: Conventional Grades: 11-12 Time Frame: Year Credit: 1.0
Prerequisite: Intro to Engineering and Industrial Design (Level 1) and at least one of the following:
Engineering and Industrial Design (Level 2), Architectural Design, or Product Design

This course will include a large, yearlong project that will tie together the concepts learned in previous engineering courses. Students will develop a personal portfolio documenting their work. The course will also include work with a professional on researching or developing a solution for a real-world engineering problem. The course will develop students' engineering, computer programming and presentation skills.

Designing Your Life – 676

Graded: Conventional Grades: 10-12 Time Frame: Year Credit: 1.0

This course prepares students to successfully manage the transitions from adolescence to adulthood. Students will explore topics related to social emotional, financial and physical wellness as well as career development. The goal of this course is to provide students with skills and knowledge to help them design the future they desire.

Parenting and Child Development – 681

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5

In this course, students will study the principles of child growth, development and behavior of newborns, toddlers, preschoolers, and school-age children. Other topics will include discipline methods, needs of all children, childcare options, and other related topics. This course serves as preparation for future learning in a variety of fields including but not limited to education and health sciences.

Future Proof – 682

Graded: Conventional Grades: 11-12 Time Frame: Semester Credit: 0.5

In this course, students will analyze interests, aptitudes and skills to prepare for careers and transition through life. An emphasis will be placed on work ethics, team building, communication and leadership skills. Additional topics will include technology etiquette and career planning.

Foods and Fitness – 683

Graded: Conventional Grades: 10-12 Time Frame: Semester Credit: 0.5

Foods and Fitness involves the study of making sound, healthy life-style choices when selecting a restaurant, grocery shopping and preparing foods at home. Students will examine current research regarding a healthy, active life-style. Nutrition, healthy preparation of food, diets, dietary issues, and convenience foods will be emphasized. This lab-based learning course will include preparing and consuming food.

Global Gourmet – 684

Graded: Conventional Grades: 10-12 Time Frame: Semester Credit: 0.5

Global Gourmet explores food, health, and cultures of other countries. Topics include the ingredients, diets, nutritional contributions, preparation techniques, and life-styles across the globe. World food issues related to safety, technology, and consumer choices will also be examined. This lab-based learning course will include preparing and consuming food.

Interior Design and Housing – 686

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5

Interior Design and Housing emphasizes designing a home and the decisions involved in renting and buying a house. The principles and elements of design will be applied through projects and activities. Topics include the use of color, furniture styles and arrangements, background materials, and the use of accessories. Historic housing, architectural styles, and construction concerns will also be examined.

BUSINESS & TECHNOLOGY

Introduction to Business – 408

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5

The course Introduction to Business is designed to introduce students to the various aspects of the business world. They will acquire knowledge of business processes, economics, and business relationships. Students will use technology to synthesize and share business information. Employability skills, leadership, communications, and personal financial literacy will be addressed. ***Intro to Business offers the opportunity for students to work on the RISE Up Credentialing: Retail Fundamentals (6pts).***

Marketing and Advertising – 426

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5

This course is designed to give students an understanding of how businesses in our modern society market and advertise their goods and services to consumers. Topics covered include marketing research, product development, promotion, pricing, and distribution. Students will have the opportunity to apply the concepts learned to create marketing campaigns for real products, including creating commercials, and graphic / visual presentations. ***Marketing and Advertising offers the opportunity for students to work towards the RISE Up Credential: Customer Service and Sales (6pts).***

Introduction to Entrepreneurship – 427

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5

In this course, students will use innovation skills to generate ideas for new products and services, evaluate the feasibility of ideas, and develop a strategy for commercialization. They will use technology to select target markets, profile target customers, define the venture's mission, and create business plans. Students will learn about initial steps to establish a business and the importance of calculating and forecasting costs, break-even, and sales. Establishing a brand, setting prices, promoting products, and managing customer relationships will be emphasized.

Accounting I – 497

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5

Students will use cutting edge technology to learn and develop a solid foundation of accounting principles related to operating a service business. Careers are plentiful and lucrative in this rewarding profession. Accounting is also required of all business majors in college.

Accounting II – 498

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5
Prerequisite: Accounting I

This course allows for students to expand their accounting knowledge by gaining a broader understanding of business activities such as analyzing and preparing financial documents, administering payroll, and managing accounts related to a merchandising business.

Personal Law – 451

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5

Personal Law is designed to provide students with the opportunity to explore various areas of law as they relate to juveniles and to individuals. The students will explore the following areas of our legal system: The Constitution, criminal and civil law, the court system, and juvenile law.

*Course also offered virtually through DCS Virtual. Read more about DCSV.

BUSINESS & TECHNOLOGY

Cybersecurity, Engineering and IT Fundamentals - 444

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5

In this course, students learn valuable skills to get them started in the rapidly developing and advancing fields of cybersecurity, engineering and other areas of information technology. These skills will prepare them for future course work in cybersecurity, engineering and IT-related courses, as well as provide content required for valuable certification exams. No prior knowledge of IT or computer science is necessary, just a basic understanding of computers and computer systems. Students complete online learning modules and participate in simulations and authentic, IT related applications. ***Students may complete the CompTIA Fundamentals certification in this course.***

*Professional Foundations- 482/V482

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5

Professional Foundations will provide students with the opportunity to learn, improve, and become proficient in the following areas of technology: touch typing skills, formatting documents and spreadsheets, business presentations and computer graphics. Popular products such as Microsoft Office and Google applications will be incorporated throughout the course. Upon completion, students will be able to identify, select, and apply appropriate technology tools and resources to produce creative works and to construct technology-enhanced documents. This course includes opportunities for students to earn industry credentials.

Web Page Design - 485

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5 (Repeatable)

This web page design course will provide students with the opportunity to create quality documents in the areas of visual communications and web page design. Using web design software, students will integrate text, graphics, and animations to produce original web pages and other forms of visual communications.

Introduction to Computer Programming - 384

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5

Introduction to Computer Programming provides an introductory study of techniques in programming utilizing Java, C++ and other languages. Topics include structure of programming, input and output, data types and structures, logical operations and loops. Projects assigned will require application of computing resources in a variety of curriculum areas. The class is designed as a programming/lecture/laboratory class with emphasis on programming/debugging. Upon completion of this course the student will have a solid background in program methodology.

Advanced Placement Computer Science Principles - 385

Graded: AP / IB / CCP Weight Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisites: Cybersecurity, Engineering, and IT Fundamentals or Intro to Computer Programming recommended

Advanced Placement Computer Science Principles will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. The course is intended to prepare students to take the AP exam for possible college credit.

Advanced Placement Computer Science A - 386

Graded: AP / IB / CCP Weight Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Advanced Placement Computer Science Principles

Advanced Placement Computer Science A is designed for the skilled computing student. Competent mathematics and communication skills are assumed. Topics to be covered include programming design and methodology, data types and structures, file manipulations, procedures and functions, arrays, records, algorithms, applications and implications. The course is designed as primarily a programming / lecture / laboratory class with out-of-class time for project development. The primary language in the course is Java. The course is intended to prepare students to take the AP exam for possible college credit.

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.

BUSINESS & TECHNOLOGY

****IB Business Management (SL) – 503**

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: Year Credit: 1.0

The IB Business and Management course is designed to develop an understanding of business theory, as well as an ability to apply business principles, practices and skills. The application of tools and techniques of analysis facilitates an appreciation of complex business activities. The course considers the diverse range of business organizations and activities, and the cultural and economic context in which business operates. Emphasis is placed on strategic decision-making and the day-to-day business functions of marketing, production, human resource management and finance. This course is one year in length and is intended to prepare students to complete all internal assessments and the corresponding IB exam. **This course fulfills a Group 3 requirement for the IB Diploma.**

****IB Computer Science (SL) – 543**

****IB Computer Science (HL) – 547 Year 1/ 548 Year 2**

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: 1 or 2 Years Credit: 1.0 Year 1 / 1.0 Year 2

SL Prerequisites: Cybersecurity, Engineering, and IT Fundamentals and Intro to Computer Programming or AP Computer Science Principles recommended

HL Prerequisites: Cybersecurity, Engineering, and IT Fundamentals and Intro to Computer Programming or AP Computer Science Principles

The IB Computer Science curriculum provides a rigorous framework for the exploration of problem-solving using computers. Students are expected to use the JAVA programming language and learn appropriate object-oriented software design techniques equivalent to the first programming course offered at many colleges. Each student will develop a Program Dossier to demonstrate mastery of the basic computer science techniques. Topics to be covered include programming design and methodology, data types and structures, procedures and functions, arrays, algorithms, simulations, computer networks, how computers are used, and the societal implications of computer technology. The SL course is 1 year in length and the HL course is 2 years in length and both are intended to prepare students to complete all internal assessments and the corresponding IB exams. This course will also prepare students for the AP Computer Science exam. **This course fulfills a Group 4 requirement for the IB Diploma.**

**Offered only at Emerald Campus, travel required with transportation available.

ENGLISH LANGUAGE ARTS

NOTE: NOTE: All students must earn four credits of English to fulfill graduation requirements. The required courses are sequential and cannot be taken concurrently. If a student fails one level, she/he must make up the credit before going on in the sequence. Seniors may enroll for two English courses concurrently with permission of his/her school counselor and principal.

*English I – 013/V013

Graded: Conventional | Grade: 9 | Time Frame: Year | Credit: 1.0

English I is the study of literature, informational texts, writing, language, speaking and listening. Emphasis is placed on analysis, research, grammar, vocabulary, and discussion skills. English I is the foundation for all other courses in the language arts curriculum.

Honors English I – 015

Graded: Honors | Grade: 9 | Time Frame: Year | Credit: 1.0

Honors English I encompasses English I content and skills and is the enriched study of literature, informational texts, writing, language, speaking and listening. Emphasis is placed on higher order thinking, analysis, research, grammar, vocabulary, and discussion skills. Honors English I is the foundation for all other courses in the Language Arts curriculum including AP/IB courses. This course is designed for self motivated, independent learners who want to participate in a rigorous course highlighting critical reading and writing skills.

*English II – 021/V021

Graded: Conventional | Grade: 10 | Time Frame: Year | Credit: 1.0

English II focuses on composition skills, vocabulary development, research skills, nonfiction reading, and literature study. Students write short essays (narrative, argumentative and informational) and study grammar through the writing process.

Honors English II – 022

Graded: Honors | Grade: 10 | Time Frame: Year | Credit: 1.0

Honors English II encompasses English II and focuses on higher order thinking about novels, nonfiction works, short stories, poems, and plays. Literary analysis is emphasized and evaluated through numerous narrative, argumentative and informational compositions, in-class essays and projects. This course is designed for self motivated, independent learners who want to participate in a rigorous course highlighting critical reading and writing skills.

American Studies, 1877 to the Present – 166

Graded: Conventional | Grade: 10 | Time Frame: Year (2 periods/day) | Credit: 2.0 (1.0 American History, 1.0 English)
Prerequisite: One credit each of Social Studies and English

American Studies explores the links between United States history and literature. The focus will be on U.S. History and literature following Reconstruction (1877) along with other thematic connections. The course addresses content covered in Ohio's Learning Standards and prepares students for the required state assessments. Major historical events, trends, issues, personalities, and literary selections will be emphasized and conjoined with reading of fiction and nonfiction. This two-period block allows for student presentations, combined assessments, group and individual projects and class discussions. American Studies is team-taught and will fulfill both social studies and language arts requirements for Grade 10.

Advanced Placement American Studies – 167

Graded: AP/IB/CCP Weight (AP US History), Honors (Honors English II) | Grade: 10 | Time Frame: Year (2 periods/day)
Credit: 2.0 (1.0 AP US History and 1.0 Honors English II)
Prerequisite: One credit each of Social Studies and English

This team-taught course provides an opportunity for the student to study major historical events in relation to major literary periods. The course integrates Honors English II and AP US History. As in all higher-level courses, students are expected to read and write extensively both in and out of class. Student reading will include both fictional and non-fictional works as they relate to historical/literary content areas. AP American Studies is designed to help students develop strong analytical skills, acquire knowledge of critical issues in US history and prepares students for college level work. The course addresses content covered in the Ohio Learning Standards and prepares students for required state assessments. An AP American Studies student will receive one credit in Language Arts and one credit in US History. Both grades will be weighted, because of the additional expectations of this course. The class is block scheduled and team taught by one US History and Language Arts teacher. The purchase of supplemental materials is necessary to complete the course successfully. The course is intended to prepare students to take the AP US History exam for possible college credit.

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.

*English III – 029/V029

Graded: Conventional | Grade: 11 | Time Frame: Year | Credit: 1.0

English III is the study of short and extended literature works from a variety of genres. Critical reading strategies, formal and informal speaking and listening opportunities, and continued vocabulary acquisition are emphasized. Writing includes creating informational, argumentative, and narrative compositions that demand grade level analysis, personal connections to texts, connections between texts, and use of the human experience to inform thought. Students will write in a variety of formats for a variety of audiences.

Honors English III - 030

Graded: Honors | Grade: 11 | Time Frame: Year | Credit: 1.0

Honors English III encompasses English III content and skills. Additionally, the course requires independent reading of additional American and World literature selections of significance. This course is designed for self motivated, independent learners who want to participate in a rigorous course highlighting critical reading and writing skills.

*English IV – 035/V035

Graded: Conventional | Grade: 12 | Time Frame: Year | Credit: 1.0

English IV develops students' individual voice in reading, writing, speaking and listening. The heart of this course revolves around choice and personalization. Through project-based learning, students explore their passions and interests as they continue to become discerning readers of text. Students have the freedom to make their learning visible using technology and other creative outlets. This course continues to challenge students' thinking and develop skills necessary within the post-secondary experience.

Advanced Placement English Literature – 034

Graded: AP/IB/CCP Weight | Grades: 11-12 | Time Frame: Year | Credit: 1.0

Advanced Placement English Literature is designed for the student who wishes to gain an understanding of the development of British and World literature through rigorous study of major authors and the eras in which they wrote. The course includes the study of epics, drama, novels, short stories, and poetry. The course moves rapidly and demands in-depth literary analysis. Various evaluative methods consist of in-class essays, autonomous essays, Socratic method discussions and traditional quizzes and tests. The course is intended to prepare students to take the AP exam for possible college credit.

Advanced Placement English Language – 039

Graded: AP / IB / CCP Weight | Grades: 11-12 | Time Frame: Year | Credit: 1.0
Prerequisite: English II, Honors English II or American Studies

Advanced Placement English Language is designed for students who wish to have the skills to write effectively in their AP and college courses as well as in their personal and professional lives. The course requires students to read widely and write many different kinds of essays. Rhetoric, the writing process, and literature study are the three main course components. The course is fast-paced and demanding. Strong basic writing skills are a must. The course is intended to prepare students to take the AP exam for possible college credit.

Creative Writing – 045

Graded: Conventional | Grades: 10-12 | Time Frame: Semester | Credit: 0.5

Creative Writing is designed for students who love to write and want to work toward mastery in imaginative writing. The course will emphasize free writing, journal writing, and editing and revising for publication. Students will be required to participate actively in both small- and large-group discussions. The course works towards the mastery of the writing process in order to help students produce original poetry and prose. Students will be encouraged to publish their writing in each school's literary magazine and to enter various competitions on the state and national level.

Writing for Publication I – 050

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5

This course examines all phases of publishing, including interviewing, writing, page design, advertising, photography and graphics. Students also will learn the professional use of web and social media tools. Work completed in this class may appear in the student magazine or related website. Students can work at their own pace, will have a choice on stories to write, and work will be entered in state and national contests that include scholarship opportunities.

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.

Writing for Publication II – 051

Graded: Conventional Grades: 9-12 Time Frame: Semester or Year Credit: 0.5 (Repeatable)
Prerequisite: Writing for Publication I

Advanced students serve as leaders and are responsible for all aspects of the student magazine and its website. Skills in interviewing, writing, page design, advertising, photography and graphics will be further developed in the course. Students have the opportunity to serve as editors for both the print publication and website. This course requires out-of-class time to complete work. Students may be required to attempt to sell advertisements. Students can work at their own pace, will have a choice on stories to write, and work will be entered in state and national contests that include scholarship opportunities. **Students wishing to take this course for a full year should use code 0512.**

Public Speaking – 052

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5

Public Speaking stresses formal and informal communication in varied contexts such as informational, persuasive, and oral interpretation. The course incorporates the basic skills of speaking and listening, as well as techniques of presentation. Speech and effective communication skills as well as speech composition will be stressed.

Yearbook – 055

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Application

Yearbook is a class for students who are interested in working on the high school annual. Students will be responsible for layouts, photography, sales campaigns, copywriting, and graphic design. Access to a digital camera and computer knowledge is beneficial. The course requires out-of-class time to complete assignments. Note: Yearbook is a class where students are treated as professionals. Students need to be motivated, organized, hard-working, and will be held accountable to the team for their actions and final product.

Yearbook II – 056

Graded: Conventional Grades: 10-12 Time Frame: Semester or year Credit: 0.5 (Repeatable)
Prerequisite: Yearbook

Yearbook II is a class for students who have successfully completed Yearbook I and are interested in advanced design and leadership roles. Students are responsible for choosing the high school annual's theme and page designs, as well as advanced layout, photography, writing, and ad sales campaigns. Adobe InDesign and PhotoShop will be used to complete these tasks. Opportunities for training with professionals in the graphic and computer design fields also are included. **Students wishing to take this course for a full year should use code 0562.**

Argumentation and Debate – 057

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5

Argumentation and Debate is a course for those who wish to develop skills in effective oral communication, critical thinking, analysis, argumentation, and expression by learning different formal and informal debate techniques through active participation. Methods of research, persuasion, logic and reasoning, and speech delivery are stressed.

English Connections – 064

Graded: S/U; Grade is not calculated in GPA Grades: 9-12 Time Frame: Semester Credit: 0.5 Elective credit (Repeatable)
Prerequisite: Principal review of student data

English Connections provides an opportunity for students to receive additional instructional support related to goals in their companion English core classes. Instructors work with students independently and in small purposeful groupings to strengthen foundational skills, as well as, provide reinforcement of English classroom learning. During this time, students have the opportunity to receive extra guided reading and writing instruction, the convenience to work on regular English class assignments, and the time to become avid readers of current YA literature through choice reading opportunities. Through the support provided in English Connections, students learn and apply reading and writing strategies that can then be implemented across the curriculum. This course does not count for an English credit but will be counted as elective credit. **Students wishing to take this course for a full year should use code 0642.**

EL English Studies Beginner – 905/904

Graded: Conventional Grades: 9-12 Time Frame: Year (2 periods/day)
Credit: 2.0 (Repeatable) For these 2 credit classes - 1 credit will be an English credit and 1 credit will be an elective credit.
Prerequisite: Teacher Recommendation / Program Testing - Required for EL students

EL English Studies Beginner focuses on developing language functions and forms in English necessary for English Learners to meaningfully engage in content-specific practices. Learning progresses from a focus on making meaning to using language to engage in the practices. Linguistic features of English constitute important objectives in the service of student's present language learning purposes. Students will develop skills in the areas of reading, writing, speaking, listening and language development, with emphasis on print concepts, phonological awareness, phonics, word recognition, and basic communication. Learning is aligned to the Ohio English Language Proficiency Standards and English Language Arts Standards. EL English Studies Beginner is the initial course for a student with very limited English proficiency. *This will be a double blocked class.

EL English Studies Intermediate – 906/904

Graded: Conventional Grades: 9-12 Time Frame: Year (2 periods/day)
Credit: 2.0 (Repeatable) For these 2 credit classes - 1 credit will be an English credit and 1 credit will be an elective credit.
Prerequisite: Students are placed through required Program Testing for EL students

EL English Studies Intermediate focuses on developing language functions and forms in English necessary for English Learners to meaningfully engage in content-specific practices. Learning progresses from a focus on making meaning to using language to engage in the practices. Linguistic features of English constitute important objectives in the service of student's present language learning purposes. This course is aligned to the Ohio English Language Proficiency Standards and English Language Arts Standards. EL 906 further develops the specific English proficiencies responsively for each student. *This will be a double blocked class.

EL English Intermediate – 907

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0 English credit (Repeatable)
Prerequisite: Students are placed through required Program Testing for EL students

EL English focuses on developing language functions and forms necessary for English Learners to meaningfully engage in content-specific practices. Learning progresses from a focus on making meaning to using language to engage in the practices. Linguistic features of English constitute important objectives in the service of student's present language learning purposes. This course is aligned to the Ohio English Language Proficiency Standards and English Language Arts Standards. EL 907 further develops the specific English proficiencies responsively for each student.

EL English Advanced – 908

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0 English credit (Repeatable)
Prerequisite: Students are placed through required Program Testing for EL students

EL English focuses on developing language functions and forms necessary for English Learners to meaningfully engage in content-specific practices. Learning progresses from a focus on making meaning to using language to engage in the practices. Linguistic features of English constitute important objectives in the service of student's present language learning purposes. This course is aligned to the Ohio English Language Proficiency Standards and English Language Arts Standards. EL 908 further develops the specific English proficiencies responsively for each student with increasing connections to units of study and resources outlined in the adopted ELA graded courses of study.

EL English Transitional – 909

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0 English credit (Repeatable)
Prerequisite: Students are placed through required Program Testing for EL students

EL English focuses on developing language functions and forms necessary for English Learners to meaningfully engage in content-specific practices. Learning progresses from a focus on making meaning to using language to engage in the practices. Linguistic features of English constitute important objectives in the service of student's present language learning purposes. This course is aligned to the Ohio English Language Proficiency Standards and English Language Arts Standards. EL 909 further develops the specific English proficiencies responsively for each student with increasing connections to units of study and resources outlined in the adopted ELA graded courses of study. The primary goal of this course is to bridge the ELA practices needed in order to ensure competence and success for the English Learner as they are mainstreamed into the Language Arts classroom.

ENGLISH LANGUAGE ARTS

EL Resource – 910

Graded: Conventional; Grade is not calculated in GPA Grades: 9-12 Time Frame: Semester Credit: 0.5 Elective credit (Repeatable)
Prerequisite: Students are placed through required Program Testing for EL students

EL Resource provides instructional assistance in content areas and English language. All students registered to take an EL English course are encouraged to take EL Resource unless an alternative service is provided. English Learner teachers have the discretion to allow trial mainstream students to register for EL Resource if the added support is needed. EL Resource provides instructional assistance in content areas, English language and academic skills. **Students wishing to take this course for a full year should use code 9102.**

EL Writing and Content Literacy Skills – 911

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5 Elective credit (Repeatable)

This course provides instruction for more advanced language students to enhance their writing skills across the curriculum. Emphasis is placed on advancing informational and argumentative writing skills towards fluency and supplementing social studies content to meet the needs of EL students. Other academic content may be taught according to students' needs. **Students wishing to take this course for a full year should use code 9112.**

*ACT/SAT Preparation and Literacy Skills – 979/V979

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5

Students will explore a broad set of literacy skills and strategies that are essential to critical thinking, academic success, and college/career readiness. Students will learn the difference between the ACT/SAT and their various applications. Students will learn to deconstruct test questions and increase their ability to decode challenging vocabulary in context. In addition, students will sharpen timed writing skills and develop an individual study plan to address identified areas of improvement. Through these exercises, students will gain a set of tools that will be useful, both for test success and overall literacy development.

**IB English Language and Literature (HL) – 582 – Year 1/ 583 – Year 2

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: 2 Years Credit: 1.0 Year 1 / 1.0 Year 2
Prerequisite: English II, Honors English II, or American Studies

Language and Literature introduces the critical study and interpretation of written and spoken texts from a wide range of literary (novels, plays, graphic novels, etc.) and non-literary (advertisements, films, websites, etc.) genres. In addition to the formal analysis of texts, students will explore the ways through which medium, perspective, and culture impact meaning and interpretation. Students will engage in a variety of written, spoken, visual, and creative ways to demonstrate their learning. This course is two years in length and is intended to prepare students to complete all internal assessments and the corresponding IB exam. The 2-year course includes required literature by IB which demands emotional and intellectual maturity of students. **This course fulfills the junior and senior level English graduation requirement. This course fulfills a Group 1 requirement for the IB Diploma.**

**IB Literature and Performance (SL) – 584

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: 1 Year Credit: 1.0
Prerequisite: English II, Honors English II, or American Studies

The literature and performance course will focus on the interaction between the literary skills of close reading and writing, and the aesthetic elements of creating performance to express learning and meaning. In this exciting, creative process, text is viewed from different angles in a way that goes beyond what is characteristic of literary arts, or humanities studies as single disciplines. This course is intended to prepare students to complete all internal assessments and the corresponding IB exam. It includes required literature which demands emotional and intellectual maturity of students. **This course fulfills the junior or senior level English graduation requirement and fulfills a Group 1 requirement for the IB Diploma.**

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.
**Offered only at Emerald Campus, travel required with transportation available.

MATHEMATICS

NOTE: All students are required to complete four math credits for graduation. The typical course sequence for high school math courses is as follows: Algebra 1, Geometry, Algebra 2 or equivalent, and a 4th math course option from the course offerings below. More than one mathematics course may be taken in any given year. A TI-84 Plus graphing calculator is recommended for all math courses.

*Algebra I - 328/V328

Graded: Conventional Grade: 9 Time Frame: Year Credit: 1.0

Mathematicians in this course will build upon prior knowledge of linear functions to extend algebraic problem solving to quadratic and exponential relationships. Students will engage in methods for analyzing, solving, and modeling with these functions. Students will graph and interpret characteristics of functions and solve both algebraically and graphically. Students will reason with equations and inequalities, with a focus on modeling. This course will include a study of descriptive statistics during which students will display numerical data and summarize it using measures of center and variability. The GAISE model will support students as they interpret the results in a real-world context. A TI-84+ calculator is recommended for this course.

Algebra I Connections – 327

Graded: S/U; Grade is not calculated in GPA Grade: 9 Time Frame: Year Credit: 1.0 Elective Credit
Prerequisite: Concurrent enrollment in Algebra I and Principal review of student data

Algebra I Connections provides an opportunity for students to receive additional instructional support as they study and develop mathematical strategies that lead to understanding and success in the companion course, Algebra I. Students learn and apply these strategies to accomplish academic and math fluency across the curriculum. In addition, they work with their instructor to evaluate strengths and needs of foundational mathematical concepts and establish personalized goals for mathematical growth. This course does not qualify as a math credit but will be counted as an elective credit.

*Geometry - 342/V342

Graded: Conventional Grades: 9-10 Time Frame: Year Credit: 1.0
Prerequisite: Algebra I

Mathematicians in this course will explore complex geometric situations and deepen their explanations of geometric relationships moving towards formal mathematical arguments. This course builds on congruence and similarity concepts introduced in previous courses. Students develop their understanding and use of proof, both formal and informal. Students focus learning in trigonometry, circles, and connecting coordinates to both algebra and geometry concepts. Students further develop concepts in probability, expanding their ability to compute and interpret theoretical and experimental probabilities. A compass and protractor are required for this course and a TI-84+ calculator is recommended.

Geometry Connections – 341

Graded: S/U; Grade is not calculated in GPA Grade: 9-10 Time Frame: Year Credit: 1.0 Elective Credit
Prerequisite: Concurrent enrollment in Geometry and Principal review of student data

Geometry Connections provides an opportunity for students to receive additional instructional support as they study and develop mathematical strategies that lead to understanding and success in the companion course, Geometry. Students learn and apply these strategies to accomplish academic and math fluency across the curriculum. In addition, they work with their instructor to evaluate strengths and needs of foundational mathematical concepts and establish personalized goals for mathematical growth. This course does not qualify as a math credit but will be counted as an elective credit.

*Algebra II - 334/V334

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Geometry

Building on their work with linear, quadratic, and exponential functions from Algebra I, mathematicians in this course extend their repertoire of functions to include polynomial, rational, radical, and logarithmic functions and transformations of each of these. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using logarithms. Students extend their knowledge of trigonometry and its applications beyond right triangles. Students will be introduced to matrices and matrix operations as well as applications such as solving systems to equations. A graphing calculator is required.

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.

MATHEMATICS

Algebra II Connections – 333

Graded: S/U; Grade is not calculated in GPA Grade: 10-12 Time Frame: Year Credit: 1.0 Elective Credit
Prerequisite: Concurrent enrollment in Algebra II and Principal review of student data

Algebra II Connections provides an opportunity for students to receive additional instructional support as they study and develop mathematical strategies that lead to understanding and success in the companion course, Algebra II. Students learn and apply these strategies to accomplish academic and math fluency across the curriculum. In addition, they work with their instructor to evaluate strengths and needs of foundational mathematical concepts and establish personalized goals for mathematical growth. This course does not qualify as a math credit but will be counted as an elective credit.

Applications of Geometry and Algebra (AGA) - 332

Graded: Conventional Grade: 12 (student must be in year 4 of high school) Time Frame: Year Credit: 1.0
Prerequisite: Concurrent enrollment in Algebra II and Principal review of student data

This is a companion course for 12th grade students concurrently enrolled in Algebra II. Applications of Geometry and Algebra will provide students with additional instructional support, as they study and develop strategies that lead to deeper mathematical understanding. Students will learn advanced algebra and integrated topics through a modeling approach focused on application of mathematics. Instructional time will focus on learning through varied modalities, including the use of hands-on, in-depth applications of the concepts introduced in Algebra II and beyond. Technology will be used to support student conceptual understanding. A strength-based approach will support student needs within foundational mathematical concepts. Personalized goals will guide student learning so that upon readiness, students will be introduced to advanced mathematics topics including vectors, matrices, interest and trigonometry to prepare them for future math studies. A graphing calculator is required.

Honors Algebra II - 336

Graded: Honors Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Geometry

This course is designed for self motivated, independent learners who want to participate in a rigorous course highlighting critical thinking and problem solving skills. Building on their work with linear, quadratic, and exponential functions from Algebra I, mathematicians in this course extend their repertoire of functions to include polynomial, rational, radical, and logarithmic functions and transformations of each of these. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using logarithms. Students extend their knowledge of trigonometry and its applications beyond right triangles. Students will be introduced to matrices and matrix operations as well as applications such as solving systems to equations. A graphing calculator is required.

Data Science Foundations - 335

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Geometry

Acquiring foundational knowledge in data science and basic programming skills are the primary objectives and outcomes of the Data Science Foundations course. It includes the use of mathematics, statistics, and computer science methods in the analysis and interpretation of data in all forms. In the context of real-world situations students will make predictions and decisions using data. Students combine problem solving and reasoning skills with statistics and modeling to analyze big data to find patterns and communicate meaning in data. Ohio's Learning Standards related to Statistics and Probability relevant to data science are taught along with the data demands of good citizenship in the 21st century. These habits and skills cut across disciplines, promote perseverance, and provide a gateway into successful postsecondary education and a variety of careers. No prior computer science or programming skills are necessary. While this course is not aligned to the Algebra II curriculum, based on the rigor of the course, it satisfies the state's math graduation requirement of an Algebra II equivalent course.

Advanced Integrated Mathematics - 360

Graded: Conventional Grades: 11-12 Time Frame: Year Credit: 1.0
Prerequisite: Algebra II or Data Science Foundations

This course provides students with the opportunity to extend their knowledge from previous coursework in Algebra and Geometry, to deepen their thinking about mathematical concepts, and to apply skills in real life contexts using multiple approaches and technology. Students will also further develop their problem-solving skills to be successful in college math courses. Some advanced math topics will be introduced including, but not limited to, matrix algebra, statistics & probability, trigonometry & vectors, and logic with graph theory. A graphing calculator is required.

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.

*Precalculus - 371/V371

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Algebra II or Honors Algebra II and Geometry

Precalculus emphasizes the development of a strong foundation in advanced algebra, trigonometry, and analytical skills. Mathematicians in this course will build upon previous coursework to explore polynomial, radical, exponential, logarithmic, and trigonometric functions through the lens of change. Students will analyze and represent functions using multiple representations including a foundational knowledge of limits. Throughout the course, students will develop rigorous symbolic manipulation skills that will support future learning of mathematics. A graphing calculator is required.

Advanced Placement Precalculus - 374

Graded: AP/IB/CCP Weight Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Algebra 2 or Honors Algebra 2 and Geometry

AP Precalculus provides students with an understanding of the concepts of college algebra, trigonometry, and additional topics that prepare students for further college-level mathematics courses. This course explores a variety of function types and their applications—polynomial, rational, exponential, logarithmic, trigonometric, polar, parametric, vector-valued, implicitly defined, and linear transformation functions using matrices. Throughout the course, the mathematical practices of procedural and symbolic fluency, multiple representations, and communication and reasoning are developed. Students experience the concepts and skills related to each function type through the lenses of modeling and covariation, and engage each function type through their graphical, numerical, analytical, and verbal representations. The course is intended to prepare students to take the AP exam for possible college credit and to pursue college level calculus in the future. A graphing calculator is required.

Advanced Placement Calculus AB – 376

Graded: AP/IB/CCP Weight Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: AP Precalculus or Precalculus

Advanced Placement Calculus AB is an introductory single-semester college-level calculus course, taught over the course of one academic year. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. The course is intended to prepare students to take the AP exam for possible college credit for Calculus 1. A graphing calculator is required.

Advanced Placement Calculus BC – 378

Graded: AP/IB/CCP Weight Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: AP Precalculus

AP Calculus BC is designed to be equivalent to both first and second semester college calculus courses. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally. Students use definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. Students apply this new content and skillset to parametrically defined curves, polar curves, and vector-valued functions. Students develop additional integration techniques and applications and are introduced to the topics of sequences and series. The course is intended to prepare students to take the AP exam for possible college credit for Calculus 1 and Calculus 2. A graphing calculator is required.

Advanced Placement Statistics – 390

Graded: AP/IB/CCP Weight Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Algebra II or Honors Algebra II or Data Science Foundations

The collection, processing, interpretation, and presentation of numerical data all belong to the domain of statistics. This course will stress the development of statistical thinking, the assessment of credibility and the value of the inferences made from data, both by those who consume them and those who produce them. The course is intended to prepare students, with little or no statistics background, to take the AP exam for possible college credit. A graphing calculator is required.

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.

MATHEMATICS

**IB Mathematics: Analysis & Approaches (SL) – 507

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: Year Credit: 1.0
Prerequisite: Honors Algebra II, Precalculus or AP Precalculus

This course is intended for students who wish to pursue studies in mathematics at university or subjects that have a large mathematical content; it is for students who enjoy developing mathematical arguments, problem solving and exploring real and abstract applications, with and without technology. The course content has an emphasis on calculus, as well as algebraic, graphical and numerical approaches. This course is one year in length and is intended to prepare students to complete all internal assessments and the corresponding IB exam. This 1-year course fulfills one math graduation requirement. **This course fulfills a Group 5 requirement for the IB Diploma.**

**IB Mathematics: Analysis & Approaches (HL) – 509 – Year 1 / 510 – Year 2

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: 2 Years Credit: 1.0 Year 1 / 1.0 Year 2
Prerequisite: AP Precalculus

This course is designed for students who enjoy describing the real world and solving practical problems using mathematics, those who are interested in harnessing the power of technology alongside exploring mathematical models and enjoy the more practical side of mathematics. The HL course will include reviewing some content from previous courses and new content, including statistics, discrete math and calculus. It is intended to meet the needs of students whose interest in mathematics is more practical than theoretical but seek more challenging content. This course is two years in length and is intended to prepare students to complete all internal assessments and the corresponding IB exam. This 2-year course fulfills the junior and senior level mathematics graduation requirements. **This course fulfills a Group 5 requirement for the IB Diploma.**

**IB Mathematics: Applications & Interpretation (SL) – 511

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: Year Credit: 1.0
Prerequisite: Algebra II or Honors Algebra II

This course is designed for students who enjoy describing the real world and solving practical problems using mathematics and statistics, those who are interested in harnessing the power of technology alongside exploring mathematical models and enjoy the more practical side of mathematics. It is intended to meet the needs of students whose interest in mathematics is more practical than theoretical but seek more challenging content by building onto previous content with an introduction to statistics and calculus. This course fulfills the junior or senior level mathematics graduation requirement. This course is one year in length and is intended to prepare students to complete all internal assessments and the corresponding IB exam. This course either fulfills the junior OR senior level mathematics graduation requirement. **This course fulfills a Group 5 requirement for the IB Diploma.**

**CSCC College Algebra (MATH 1148) – CSMATH1148

Graded: AP/IB/CCP Weight Grades: 9-12 Time Frame: First Semester Credit: 4.0 College credits (1.0 HS credit)
Prerequisite: Algebra II or Honors Algebra II recommended w/math eligibility score (ACT Math: 22+/SAT Math: 530+/ALEKS: 46+)

College Algebra is a course in the study of the elementary functions. The concept of function is developed from definition and notation through an analysis of the elementary functions: linear, quadratic, absolute value, reciprocal, square root, polynomial, rational, exponential, and logarithmic, as well as piecewise, composite and inverse functions. The analysis includes function behavior with an introduction to the concepts of continuity and limits, extrema, and zeros, as well as corresponding graphical characteristics. The topic of average rate of change of a function is included. Analytic techniques include the Rational Zeros Theorem, Intermediate Value Theorem, and Conjugate Pairs Theorem, as well as factoring and transformations. The course includes solving systems of non-linear equations and partial fraction decomposition and concludes with an introduction to arithmetic and geometric sequences and partial sums. This course emphasizes the conceptual framework of the elementary functions and the quantitative reasoning to apply them. Students should expect to spend 5-7 hours of out of class time per week preparing. **This course fulfills any of the high school math graduation requirements. See the CCP portion of this document for specific eligibility information and application steps.**

**Offered only at Emerald Campus, travel required with transportation available.

**CSCC Trigonometry (MATH 1149) – CSMATH1149

Graded: AP/IB/CCP Weight Grades: 9-12 Time Frame: Semester Credit: 4.0 College credits (1.0 HS credit)
Prerequisite: Honors Algebra II or Precalculus recommended w/math eligibility score (ACT Math:26+/SAT Math: 610+/ALEKS: 61+), or MATH 1148 with a minimum grade of "C"

This course is a study of the trigonometric functions, vectors, and related applications. Topics include right triangle trigonometry; trigonometry of general angles; the unit circle; the graphs of the trigonometric functions; analytical trigonometry; inverse trigonometric functions; verifying identities; solving trigonometric equations; the Law of Sines; the Law of Cosines; applications of trigonometry; polar coordinates and the graphs of polar equations; geometric and algebraic vectors; vector applications; plane curves and parametric equations, trigonometric form of complex numbers, and DeMoivre's Theorem. The conic sections are defined and analyzed algebraically and graphically. Students should expect to spend 5-7 hours of out of class time per week preparing. **This course fulfills any of the high school math graduation requirements. See the CCP portion of this document for specific eligibility information and application steps.**

**CSCC Calculus I (MATH 1151) – CSMATH1151

Graded: AP/IB/CCP Weight Grades: 9-12 Time Frame: Semester Credit: 5.0 College credits (1.0 HS credit)
Prerequisite: AP Precalculus recommended w/math eligibility score (ACT Math: 28+/SAT Math: 650+/ALEKS: 76+) or CSCC Trig grade C or CSCC Precalculus grade "C"

Introduction to differential calculus: functions, limits, continuity, derivatives, differentiation rules, derivatives of the trigonometric, exponential, and logarithmic functions, related rates, extrema, curve sketching, and optimization. Introduction to integral calculus: antiderivatives, definite integral, Riemann sums, area under a curve, Fundamental Theorem of Calculus, numerical integration, integration by substitution, and derivatives and integrals of inverse trigonometric functions. Applications to problems in science and engineering. Students should expect to spend 8-10 hours of out of class time per week preparing. **This course fulfills any of the high school math graduation requirements. See the CCP portion of this document for specific eligibility information and application steps.**

**CSCC Calculus II (MATH 1152) – CSMATH1152

Graded: AP/IB/CCP Weight Grades: 9-12 Time Frame: Second Semester Credit: 5.0 College credits (1.0 HS credit)
Prerequisite: MATH 1151 with a minimum grade of "C" or math eligibility score of 3 or higher on the AP Calculus AB exam

Continue introduction to integral calculus: integration of exponential, logarithmic, trigonometric, inverse trigonometric functions, volume and surface area of solids of revolution, arc length, and methods of integration. Also includes Improper Integrals. Analyze plane curves given parametrically or in polar coordinates, and their differential and integral calculus. Infinite sequences and series, and their sum and/or convergence, Taylor polynomials, and Taylor series.Students should expect to spend 8-10 hours of out of class time per week preparing. **This course fulfills any of the high school math graduation requirements. See the CCP portion of this document for specific eligibility information and application steps.**

**Offered only at Emerald Campus, travel required with transportation available.

PERFORMING ARTS

Band – 852

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0 (Repeatable)
Prerequisite: Successful Completion of Grade 8 Band or Director Approval

Band is a comprehensive course. It is designed to develop students' abilities in many different instrumental disciplines. At the conclusion of the marching band season, students are auditioned and placed in a group based on level of playing skills, and instrumental balance for each group. Students participating in a fall sport are expected to participate fully in the band program upon completion of their fall sport season. Student athletes may be asked to complete lessons during the fall if an instructor is available. Questions regarding band participation should be directed to the band director and/or guidance counselor.

Color Guard – 853

Graded: Conventional Grades: 9-12 Time Frame: Semester or Year Credit: 0.5 (Repeatable)
Prerequisite: Audition

Color Guard is a comprehensive course. The Color Guard participates with the Marching Band at all performances including football games, marching band contests, parades, pep rallies, etc.

Jazz Ensemble – 862

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0 (Repeatable)
Prerequisite: Audition

Jazz Ensemble is a comprehensive course that is comprised of traditional jazz band instrumentation. Enrollment on certain instruments may be limited for proper balance. Wind instruments and percussion may need to be enrolled in Band 852 to balance proper instrumentation for participation in Jazz Ensemble.

Orchestra – 872

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0 (Repeatable)
Prerequisite: Successful Completion of 8th Grade Orchestra

Orchestra is a comprehensive course. Orchestra explores all facets of orchestral styles and literature, both classical and pop. The course may be repeated for credit. *Chamber Orchestra (873) is offered by audition only.

Theatre I – 875

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5

Theatre I is a practical, hands-on introduction to acting and technical production. Basic acting and stage movement, character development, script analysis, and scene preparation are addressed. Scenic, costume, and makeup design are introduced as well as fundamentals of lighting, sound, and theatre management. The historical and literary aspects of drama are overviewed. Students are encouraged to participate in school productions.

Theatre II – 876

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5
Prerequisite: Successful Completion of Theatre I

Theatre II stresses more advanced acting techniques as well as the practical aspects of acting and theatrical production. Ensemble work will be encouraged. Directing and stage management will be introduced as time permits. Students may participate in several small productions and one major production may be created.

NOTE: Most music-related courses require attendance beyond the school day.
Students must attend all rehearsals and performances unless excused by the instructor.

Theatre III (Theater Ensemble) – 8781/8782

Graded: Conventional Grades: 10-12 Time Frame: Semester or Year Credit: 0.5 (Repeatable)
Prerequisite: Theatre II and Audition

Theatre III (Theater Ensemble) complements the preceding theater courses by offering students the opportunity to improve their acting and technical skills in an ensemble atmosphere. Theater III produces shows for public performance that may include both plays (e.g., full length and one act) and musicals.

Theatre Technology and Design – 8771/8772

Graded: Conventional Grades: 10-12 Time Frame: Semester or Year Credit: 0.5 (Repeatable)

Theatre Technology and Design students study theatrical lighting, sound, stage mechanics, scenic design, set construction, costuming, props and makeup. Hands-on apprentice training in actual theatrical productions will comprise a major portion of the course work. Students will be encouraged to participate in school productions as a part of the technical staff.

TBB Chorus (Tenor, Baritone or Bass) – 880

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0 (Repeatable)
Prerequisite: Teacher Recommendation

TBB Chorus is a comprehensive course. TBB Chorus is a vocal performing group that explores the disciplines of the performing ensemble. Any person who is able to sing in the Tenor, baritone, or Bass range is capable of singing in this choir. Individual singing may be required.

Symphonic Choir – 881

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0 (Repeatable)
Prerequisite: Teacher Recommendation

Symphonic choir is a comprehensive course. Symphonic choir is a vocal performing group that explores the disciplines of the performing ensemble. Individual singing may be required.

SSA Chorus (1st Soprano, 2nd Soprano, Alto) – 882

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0 (Repeatable)
Prerequisite: Teacher Recommendation

SSA Chorus is a comprehensive course. SSA Chorus is a vocal performing group that explores the disciplines of the performing ensemble. Any person who is able to sing in the Soprano I, Soprano II or Alto range is capable of singing in this choir. Individual singing may be required.

Chorale – 883

Graded: Conventional Grades: 10-12 Time Frame: Year Credit: 1.0 (Repeatable)
Prerequisite: Audition

Chorale is a comprehensive course. Students interested in this course should be able to read and understand musical notation and sing parts independently. Placement is determined by vocal balance.

A Cappella Chamber Choir – 884

Graded: Conventional Grades: 10-12 Time Frame: Year Credit: 1.0 (Repeatable)
Prerequisite: Audition

A Cappella Chamber is a comprehensive course. Students interested in this course should be able to read and understand musical notation and sing parts independently. Placement is determined by vocal balance.

NOTE: Most music-related courses require attendance beyond the school day.
Students must attend all rehearsals and performances unless excused by the instructor.

Music History – 887

Graded: Conventional | Grades: 10-12 | Time Frame: Year | Credit: 1.0

Music History provides an in-depth study of music in relation to the historical development of civilization from primitive times to the electronic age. Research and listening activities lead students to an intellectual, aesthetic response to the arts. Music Appreciation is not a course option for students enrolled in this course. Music History and Music Theory may be offered in alternate years.

Music Theory – 888

Graded: Conventional | Grades: 10-12 | Time Frame: Year | Credit: 1.0

Music Theory stresses the basic skills of harmonization and creative writing. Students must be able to read music and to display an ability to play an instrument or sing. Music History and Music Theory may be offered in alternate years.

Music Appreciation – 889

Graded: Conventional | Grades: 9-12 | Time Frame: Year (offered 2026-27) | Credit: 1.0

Music Appreciation is a general course that provides experience in listening to music more perceptively. Listening skills are developed through the study of the basic elements of music and various musical styles and periods, including American music, jazz, and popular music. No prior musical experience is necessary. Music History and Music Theory are not course options for students enrolled in this class.

NOTE: Most music-related courses require attendance beyond the school day.
Students must attend all rehearsals and performances unless excused by the instructor.

*Physical Science (PS) – 205/V205

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0

Physical Science is a one-year course in which students participate in fields of chemistry and physics. Topics of interest include motion, astronomy, thermodynamics, sound, light, energy transformations, chemistry of the periodic table, and conservation principles. Physical Science is an activity driven course with an inquiry approach that provides both a meaningful and relevant explanation of the physical world. Credit for the course may be counted toward the requirements for college articulation. This course provides excellent preparation for the student who expects to take biology, chemistry, and/or physics in high school.

Environmental Sustainability and Societies – 213

Graded: Conventional Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Physical Science and Biology recommended

Environmental Sustainability & Societies is a one-year course in which students will investigate the environmental, societal, and economic impacts of human activities on Earth's systems. Students will also explore environmental management strategies that progress toward a more sustainable society. This course includes inquiry-based laboratory experiences that engage students in asking scientific questions, gathering and analyzing information around key concepts, principles and theories within environmental science.

*Earth and Space Science – 214/V214

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Physical Science and Biology recommended

Earth and Space Science is a one-year course including the study of geology, meteorology, oceanography, and astronomy. Students will explore the Earth's spheres and cycles through scientific inquiry. This will include learning in specific areas such as the water and carbon cycle, geologic time, space exploration, the solar system, and the universe. Other topics may include current events and human endeavors in these areas of study.

*Biology (LS) – 215/V215

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Physical Science recommended

Biology is a one-year course in which students study the living world in a laboratory and classroom setting. Topics covered include: the nature of science, cells, heredity, evolution, and ecology. Methods of instruction include data analysis, research, lab work, computer simulation, and the application of biology to daily life.

Advanced Placement Biology (LS) – 217

Graded: AP/IB/CCP Weight Grades: 10-12 Time Frame: Year (2 periods/day) Credit: 2.0 (1.0 AP/IB/CCP Weight; 1.0 S/U)
Prerequisite: Biology and Chemistry

AP Biology parallels a college-level introductory biology course for science majors. It is a one-year course that includes laboratory work, college-level reading, essay writing, and class discussions. It is intended for the student who wishes to obtain a strong background in biology and prepare students to take the AP exam for possible college credit. Topics of study include: molecular and cellular biology, biochemical concepts, evolution, organismal biology, and population biology.

Human Anatomy & Physiology (LS) – 220

Graded: Conventional Grades: 11-12 Time Frame: Year Credit: 1.0
Prerequisite: Biology recommended

This course will study the following subjects: histology (types of tissues), skeletal and muscular systems, integumentary system, digestive system, respiratory system, excretory system, circulatory system, immune system, nervous system, endocrine system, and reproductive system. Human Anatomy and Physiology is a class that is hands-on and contains a variety of dissections to enhance student participation. Students will collaborate in numerous projects utilizing informational technology and professional resources. This class is particularly beneficial to students entering health-related fields and/or college degrees relating to biology.

(PS) Indicates that this course fulfills the physical science graduation requirement.
(LS) Indicates that this course fulfills the life science graduation requirement.

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.

Chemistry (PS) – 236

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Physical Science and Algebra I recommended

Chemistry is a one-year course developed for students who have never had chemistry. Students will be prepared for further study in chemistry at the college or AP level, and informed of the important ideas in chemical science related to participation in a society. Physical Science and Algebra I are strongly recommended prerequisites. Topics for the year include; lab methods, experimental design, measurement, properties of matter, properties and change, atomic structure, nomenclature, ionic and covalent bonding, balancing reactions, reaction types, metals, non-metals, molecular structure and geometry, moles, stoichiometry, kinetics, equilibrium, intermolecular forces, thermodynamics, gas laws, acids and bases.

Advanced Placement Chemistry (PS) – 238

Graded: AP/IB/CCP Weight Grades: 10-12 Time Frame: Year (2 periods/day) Credit: 2.0 (1.0 AP/IB/CCP Weight; 1.0 S/U)
Prerequisite: Chemistry

AP Chemistry parallels a college-level introductory chemistry course for science majors. It is a one-year course intended to prepare students to take the AP examination at the end of the year for possible college credit. Students will study the laws and principles of chemistry. The course includes laboratory work, lecture, outside reading, class discussions, and extensive problem solving. It is intended for the serious student who wishes to obtain a strong background in chemistry. Topics of study include the following: chemical nomenclature, quantum mechanics, atomic structure, periodicity, states of matter, thermodynamics, equilibrium, acids-bases-salts, electrochemistry, kinetics, and solution chemistry.

Advanced Placement Environmental Science – 239

Graded: AP/IB/CCP Weight Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Chemistry

AP Environmental Science is designed to be the equivalent of a one-semester, introductory college course in environmental science. The course is intended to prepare students to take the AP exam for possible college credit. The course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human - made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

Advanced Research in Science – 240

Graded: Honors Grades: 11-12 Time Frame: Semester or Year Credit: 0.5 (Repeatable)
Prerequisite: In addition to taking this course, students must meet science graduation requirements.

This course will facilitate advanced learning of the philosophy of science, research methods, science writing and reporting, statistical analysis, lab and/or fieldwork methods, and ethical concerns. This is an individual research course in which students will develop and complete a science research project. The student needs to be self-motivated and the teacher will act to facilitate the research work of the student. Work outside of the classroom will be necessary and the student will be required to submit and present their research findings to a committee. The course is designed to be a culmination of a student's high school science experience. **Students wishing to take this course for a full year should use code 2402**.

*Physics (PS) – 242/V242

Graded: Conventional Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Algebra I and Geometry

Physics is a one-year course in which students study the laws, principles and phenomena of physics. This is accomplished in a collaborative classroom setting utilizing inquiry, experiments, computer simulations and problem-solving. Topics include: Kinematics, forces and Newton's Laws, circular motion, momentum, energy, electricity and circuits, magnetism and waves.

(PS) Indicates that this course fulfills the physical science graduation requirement.
(LS) Indicates that this course fulfills the life science graduation requirement.

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.

Advanced Placement Physics 1 (PS) – 243

Graded: AP/IB/CCP Weight Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Concurrently enrolled in Algebra 2 (or higher)

AP Physics 1 is a full-year course that is the equivalent of a first-semester introductory college course in algebra-based physics. The course is intended to prepare students to take the AP exam for possible college credit in a non-physics/engineering major. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics; dynamics; circular motion and gravitation; energy; momentum; simple harmonic motion; and torque and rotational motion.

Advanced Placement Physics 2 (PS) – 244

Graded: AP/IB/CCP Weight Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: AP Physics I or a comparable introductory physics course and concurrently taking Precalculus (or higher)

AP Physics 2 is a full-year course that is the equivalent of a second-semester introductory college course in algebra-based physics. The course is intended to prepare students to take the AP exam for possible college credit in a non-physics/engineering major. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: fluids - pressure and forces; thermodynamics; electric force, field, and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic, and nuclear physics.

Advanced Placement Physics C (PS) – 245

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: Year (2 periods/day) Credit: 2.0 (1.0 AP/IB/CCP Weight; 1.0 S/U)
Prerequisite: Current or past enrollment in Calculus or AP Calculus

AP Physics C is designed to be the equivalent of a yearlong, introductory college course in physics intended for engineering, physics, or physical science majors. It is a 1-year, 2-period class intended to prepare students to take both AP Physics C exams for possible credit for college physics courses intended for physics or engineering majors. Students will study the laws and principles of physics. The course includes lab work, lecture, outside reading, class discussions, and extensive problem solving. Topics include: Newtonian mechanics, electricity and magnetism and electromagnetism. The mathematical models used to describe and understand concepts include basic concepts of calculus.

**IB Chemistry (HL) (PS) – 521 – Year 1 / 522 – Year 2

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: 2 Years Credit: 1.0 Year 1 / 1.0 Year 2
Prerequisite: Biology and Physical Science or Chemistry are recommended

IB Chemistry HL is an experimental science course that emphasizes the acquisition and analysis of data in the chemical sciences. The class covers traditional topics that would be learned in a first-year college chemistry course, with additional topics found in organic chemistry, biochemistry and pharmacology courses. Topics that are covered include data processing and analysis, stoichiometric relationships, atomic structure, periodicity, bonding, energy, kinetics, equilibrium acids and bases, oxidation and reduction, and organic chemistry. As a result of the rigor and depth of the information presented, colleges may grant credit based upon the marks earned on the IA (internal assessment) and the IB exam given in the second year in May. This course is two years in length and is intended to prepare students to complete all internal assessments and the corresponding IB exam. **This course fulfills a Group 4 requirement for the IB Diploma.**

(PS) Indicates that this course fulfills the physical science graduation requirement.
(LS) Indicates that this course fulfills the life science graduation requirement.

**Offered only at Emerald Campus, travel required with transportation available.

**IB Physics (SL) (PS) – 523

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: Year Credit: 1.0
Prerequisite: Biology and Physical Science or Chemistry are recommended

IB Physics SL is designed to introduce students to the laws of physics, the experimental skills required in physics, and the social and historical aspects of physics as an evolving body of knowledge. Course topics include: measurement; mechanics; thermal physics; waves; electricity and magnetism; atomic and nuclear physics; energy and power; and astrophysics. This course will develop students' experimental and investigative scientific skills. This course is one year in length and is intended to prepare students to complete all internal assessments and the corresponding IB exam. **This course fulfills a Group 4 requirement for the IB Diploma.**

**IB Environmental Systems & Societies (SL) – 525

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: Year Credit: 1.0
Prerequisite: Biology is recommended

IB Environmental Systems and Societies is a course firmly grounded in both a scientific exploration of the structure and function of environmental systems in their structure and function, and in the exploration of cultural, economic, ethical, political and social interactions of societies with the environment. As a result of studying this course, students will become equipped with the ability to recognize and evaluate the impact of our complex system of societies on the natural world. The interdisciplinary nature of the course requires a broad skill set from students and includes the ability to perform research and investigations and to participate in philosophical discussion. This course is one year in length and is intended to prepare students to complete all internal assessments and the corresponding IB exam. **This course fulfills a Group 3 or 4 requirement for the IB Diploma.**

**IB Sports, Exercise and Health Science (SL) (LS) – 586
**IB Sports, Exercise and Health Science (HL) (LS)- 596 (YEAR 1) and 597 (YEAR 2 will be available Fall of 2026)

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: 1 year or 2 years Credit: 1.0 Year 1/1.0 Year 2
Prerequisite: Biology and Chemistry are recommended

IB Sports, Exercise and Health Science (SEHS) is an experimental science course that focuses on how the body performs during physical activity, and the tools and techniques to analyze performance and fitness. Students will cover a range of topics to gain valuable exposure to sports science and health-related fields as well as carry out practical (experimental) investigations in both laboratory and field settings. Topics that will be covered include anatomy (skeletal and muscular systems), exercise physiology, energy systems, movement analysis, the physics of the human body and sports, skill in sports, and measurement and evaluation of human performance. This course is one year (SL) or two years (HL) in length and is intended to prepare students to complete all internal assessments and the corresponding IB exam. **This course fulfills a Group 4 requirement for the IB Diploma.**

(PS) Indicates that this course fulfills the physical science graduation requirement.
(LS) Indicates that this course fulfills the life science graduation requirement.

**Offered only at Emerald Campus, travel required with transportation available.

SOCIAL STUDIES

Modern World History – 162

Graded: Conventional Grade: 9 Time Frame: Year Credit: 1.0

Modern World History is the study of world events from 1600 to the present. This course addresses content covered in Ohio's Learning Standards. Emphasis is placed on movements that have transformed the globe politically, socially and economically. An additional focus on geography will be included in this course as well as the impact of wars, the ideas that led to independence movements, and the effects of global interdependence. Students will continue to develop historical literacy and 21st century skills.

Advanced Placement World History: Modern – 128

Graded: AP / IB / CCP Weight Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Teacher Recommendation

AP World History: Modern is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interaction and organization, and technology and innovation. The purchase of supplemental materials is necessary to successfully complete the course. Students are encouraged to take the AP exam in the spring.

Sociology – 137

Graded: Conventional Grades: 10-12 Time Frame: Semester Credit: 0.5

Sociology is the study of human social behavior, groups and organizations, and society. The course promotes civic responsibility and respect for individual rights through the analysis of demography, culture, social structure, social constructions, social institutions, and social stratification. Issues such as deviant behavior, the influence of the electronic media, race and ethnic relations, and the extremes of wealth and poverty as well as a focus on marginalized communities in an interdependent globalized society will be examined.

*Psychology – 138/V138

Graded: Conventional Grades: 10-12 Time Frame: Semester Credit: 0.5

This course focuses on the study of behavior and mental processes. Topics include the brain and neuroscience, behavioral genetics, cognitive and social development, perception, learning, memory, decision-making, emotions, motivation, psychological disorders, social identity, and culture. Students will examine various experiments in an effort to better understand human behavior and the motivations behind it.

*American History, 1877 to the Present – 160/V160

Graded: Conventional Grade: 10 Time Frame: Year Credit: 1.0
Prerequisite: Modern World History

This course examines the history of the United States of America from 1877 to the present. The federal republic has withstood challenges to its national security and expanded the rights and roles of its citizens. The episodes of its past have shaped the nature of the country today and prepared it to attend to the challenges of tomorrow. Understanding how these events came to pass and their meaning for today's citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. The study of cultures, geography, economics, government, and civics will be integrated into historical topics. Students will also develop decision-making, problem-solving, and critical-thinking skills.

Advanced Placement United States History – 163

Graded: AP / IB / CCP Weight Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: One credit of Social Studies

AP United States History is designed to help students develop analytic skills and acquire knowledge necessary to deal critically with issues and events in United States history. Beginning in the 1600s, the course focuses on the foundations of our nation and of American democracy. AP U.S. History prepares students for college work by making demands upon them equivalent to those of full-year introductory college courses. Students will develop skills necessary to arrive at conclusions on the basis of informed judgments and to present reasons and evidence clearly and persuasively in written form. Students with a deep interest in U.S. History will enjoy the course. Strong reading and writing skills will be emphasized. The purchase of supplemental materials is necessary to successfully complete the course. The course is intended to prepare students to take the AP exam for possible college credit. This course will prepare students for the required state assessments in Social Studies. ***This class may be offered as a stand-alone course or embedded with AP American Studies.**

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.

SOCIAL STUDIES

American Studies, 1877 to the Present – 166

Graded: Conventional Grade: 10 Time Frame: Year (2 periods/day) Credit: 2.0 (1.0 American History, 1.0 English)
Prerequisite: One credit each of Social Studies and English

American Studies explores the links between United States history and literature. The focus will be on U.S. History and literature following Reconstruction (1877) along with other thematic connections. The course addresses content covered in Ohio's Learning Standards and prepares students for the required state assessments. Major historical events, trends, issues, personalities, and literary selections will be emphasized and conjoined with reading of fiction and nonfiction. This two-period block allows for student presentations, combined assessments, group and individual projects and class discussions. American Studies is team-taught and will fulfill both social studies and language arts requirements for Grade 10.

Advanced Placement American Studies – 167

Graded: AP/IB/CCP Weight (AP US History), Honors (Honors English II) Grade: 10 Time Frame: Year (2 periods/day)
Credit: 2.0 (1.0 AP US History and 1.0 Honors English II)
Prerequisite: One credit each of Social Studies and English

This team-taught course provides an opportunity for the student to study major historical events in relation to major literary periods. The course integrates Honors English II and AP US History. As in all higher-level courses, students are expected to read and write extensively both in and out of class. Student reading will include both fictional and non-fictional works as they relate to historical/literary content areas. AP American Studies is designed to help students develop strong analytical skills, acquire knowledge of critical issues in US history and prepares students for college level work. The course addresses content covered in the Ohio Learning Standards and prepares students for required state assessments. An AP American Studies student will receive one credit in Language Arts and one credit in US History. Both grades will be weighted, because of the additional expectations of this course. The class is block scheduled and team taught by one US History and Language Arts teacher. The purchase of supplemental materials is necessary to complete the course successfully. The course is intended to prepare students to take the AP US History exam for possible college credit.

Advanced Placement European History – 168

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: Year Credit: 1.0
Prerequisite: Two credits of Social Studies

Advanced Placement European History will introduce students to historical events, concepts, personalities and social developments that shaped Western civilization since 1450. Major themes include European exploration, the Renaissance and Reformation, Industrial Revolution, Imperialism, and the World Wars. Students will develop skills necessary to arrive at conclusions on the basis of informed judgements, and to present reasons and evidence clearly and persuasively to written form. The purchase of supplemental materials is necessary to successfully complete the course. The course is intended to prepare students to take the AP exam for possible college credit.

*American Government – 170/V170

Graded: Conventional Grade: 11 Time Frame: Semester Credit: 0.5
Prerequisite: Two credits of Social Studies

American Government examines the principles and practices of the federal government. Students explore the basic structure of the U.S. government and focus on skills needed to become effective, participatory citizens. There is an emphasis on practical application of knowledge and skills through simulation and community interaction. Students will also examine key documents which form the basis for the United States of America. This course adheres to criteria set forth in Ohio's Learning Standards and prepares students for required state assessments.

Advanced Placement U.S. Government & Politics – 171

Graded: AP/IB/CCP Weight Grade: 11 Time Frame: Year Credit: 1.0
Prerequisite: Two credits of Social Studies

Advanced Placement U.S. Government and Politics is designed to help students develop analytic skills and acquire knowledge necessary to deal critically with issues and events in United States government and domestic politics. The course prepares students for college work by making demands upon them equivalent to those of full-year introductory college courses. Deep interest in the subject will be an asset. Strong reading and writing skills will be emphasized. The purchase of supplemental materials is necessary to successfully complete the course. The course is intended to prepare students to take the AP exam for possible college credit.

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.

*Contemporary World Issues – 176/V176

Graded: Conventional | Grade: 11 | Time Frame: Semester | Credit: 0.5
Prerequisite: Two credits of Social Studies

The dynamics of global interactions among nations and regions present issues that affect all humanity. These dynamics include: competing beliefs and goals; methods of engagement, and conflict and cooperation. Contemporary issues have political, economic, social, historic and geographic components. Approaches to addressing global and regional issues reflect historical influences and multiple perspectives. Students will connect understandings of the contemporary and comparative political systems and global issues. Through the lens of a geo-political world, current events, political debate, and how the past impacts present day foreign and domestic policy of nations, regions and international systems and organizations will be analyzed.

Advanced Placement Economics – 177
Advanced Placement Economics with Financial Literacy Credit – 177FL

Graded: AP/IB/CCP Weight and Conventional | Grades: 11-12 | Time Frame:Year | Credit: 1.0 (weighted); 0.5 (unweighted)
Prerequisite: Two credits of Social Studies

AP Economics is a year-long college level economics course that encompasses both AP Microeconomics and AP Macroeconomics. The course is intended to prepare students to take the AP Microeconomics and AP Macroeconomics Exams, which are separate, for possible college credit. This course will be divided into two parts approximately split along semester lines: the first semester will be devoted to the study of Microeconomics, which analyzes how economic decisions are made by individuals and firms. The second semester will be devoted to the study of Macroeconomics, which emphasizes how economic principles are applied to the economy as a whole. Macroeconomics and Microeconomics will both emphasize critical thinking skills, use and interpretation of complex graphic representations, and writing skills.

All students will earn 1.0 AP Econ Social Studies Credit. Students wanting to use this course to also meet the Financial Literacy graduation requirement should register using the code 177FL. These students will earn an additional 0.5 unweighted credit In Financial Literacy.

Women's Studies - 169

Graded: Conventional | Grades: 10-12 | Time Frame: Semester | Credit: 0.5

Women's Studies is a class for any high school student interested in the experiences, culture, and contributions of women over time. This course explores and analyzes the position of women and the role of gender in familial relationships, education, government, law, economy, and religion. The purpose of the course is to involve students in the ongoing dialogue around women's experiences and women's socialization, both past and present, by sex, class, race, age, and culture. A variety of activities, interviews, text interactions, film, and research based projects will be used to illuminate the theory and practice of women's studies.

African American Studies - 173

Graded: Conventional | Grades: 10-12 | Time Frame: Semester | Credit: 0.5

African American Studies is a class for any high school student interested in the experiences, culture, and contributions of African Americans over time. This course will explore and analyze the cultural heritage of African Americans, contributions of African Americans to America and the world, concepts of assimilation and a historical perspective to analyze contemporary issues in American politics, art, music, literature, and economics. Students will engage in a variety of activities, interviews, text interactions, film, and research based projects to illuminate the theory and practice of African American Studies.

*Course also offered virtually through DCS Virtual. Read more about DCSV.

SOCIAL STUDIES

**IB History (HL) – 529 – Year 1 / 530 – Year 2

Graded: AP/IB/ CCP Weight Grades: 11-12 Time Frame: 2 years Credit: 1.0 Year 1 / 1.0 Year 2
Prerequisite: 2 Required Social Studies credits

IB History helps students develop and improve reading and writing skills required to critically analyze World History topics. The focus will be on global perspectives of history in Europe, Asia, and The Americas. Year 1 focuses on World History 20th Century Warfare through the study of the World Wars, Chinese Civil War, 2nd Sino-Japanese War, and Spanish Civil War, as well as Korea, Vietnam, and the Soviet invasion of Afghanistan. Cold War causes, crises, and leaders will also be analyzed. Year 2 focuses on the history of South America, Mexico, Canada, and The United States. The IB exams consist of a Historical Investigation of their choice, written internal assessments, and a document-based assessment.

The American Government requirement for graduation is earned with the successful completion of the first year of the course. Students will complete the required state Government test during year one of this course. The HL course is two years in length and is intended to prepare students to complete all internal assessments and the corresponding IB exam. **This course fulfills a Group 3 requirement for the IB Diploma.**

**IB Psychology (SL) – 527

Graded: AP/IB/ CCP Weight Grades: 11-12 Time Frame: Year Credit: 1.0

There are three main components to the IB Psychology SL course. The first component involves the study of Biological, Cognitive, and Sociocultural approaches to understanding human behavior. The second component involves replicating an experiment for the Internal Assessment. The third component involves a study of abnormal psychology, in an attempt to understand the causes and subsequent treatments of mental illnesses such as depressive disorders, eating disorders, anxiety disorders, obsessive-compulsive disorders, trauma, and stress-related disorders. This course is one year in length and is intended to prepare students to complete all internal assessments and the corresponding IB exam. **This course fulfills a Group 3 requirement for the IB Diploma.**

**IB Global Politics (SL) – 587

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: Year Credit: 1.0
Prerequisite: 2 required Social Studies credits

The global politics course explores fundamental political concepts such as power, sovereignty, development, cooperation and great power competition in a range of contexts and at a variety of levels, including the actions of individual states, MNCs, IGOs and non-state actors. It allows students to develop an understanding of the local, national, international and global dimensions of political activity, as well as allowing them the opportunity to explore political issues affecting their own lives. It helps students to understand abstract political concepts by grounding them in real world examples and case studies, and also invites comparison among such examples and case studies to ensure a transnational perspective. Developing international mindedness and an awareness of multiple perspectives is at the heart of this course.

The American Government requirement for graduation is earned during the SL course. Students will complete the required state Government test during year one of this course. Students taking the IB Global Politics (SL) course will complete the curriculum, an internally assessed political engagement and the spring IB exam in 1 year. **This course fulfills a Group 3 requirement for the IB Diploma.**

**Offered only at Emerald Campus, travel required with transportation available.

VISUAL ARTS

*Art Foundations – 760/V760

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5 (Repeatable to 1.0 credit in person only.)

Art Foundations is an introduction to various art processes such as drawing, painting, and three-dimensional art. An emphasis is placed on composition, which involves the use of the formal art elements and principles. This course includes studio projects, history, criticism, and aesthetics. Students will be encouraged to create personally expressive art works. Students will supply some materials. **Students wishing to take this course for a full year should use code 7602.**

Ceramics – 762

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5 (Repeatable to 1.0 credit)

Ceramics is a course designed to provide experience in generating original ideas and artwork for ceramic art. Problem-solving and critical thinking skills will be stressed. A variety of media techniques and styles will be explored. Artwork from a variety of artists, cultures, and time periods will be examined and critiqued. Students will be encouraged to develop a personal, creative style. Students will supply some materials. **Students wishing to take this course for a full year should use code 7622.**

Graphic Design – 764

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5 (Repeatable to 1.0 credit)

Graphic Design class includes exploration of various art processes. Students will have opportunities to work with a variety of media to enable them to create personally expressive art such as posters, t-shirts, collages, and social commentary pieces. Students will research and develop ideas, record their process and reflect on the outcomes of their finished work. Students will supply some materials. **Students wishing to take this course for a full year should use code 7642.**

*Computer Graphics – 766/V766

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5 (Repeatable to 1.0 credit in person only)

Computer Graphics is a course designed to foster creativity and self-expression using state of the art technology. Students will work with a variety of digital photography, computer animation, and illustration. Students will develop an understanding of the hardware and software as well as related art topics including how art history, criticism, and aesthetics impact the world of art. Students will supply some materials. **Students wishing to take this course for a full year should use code 7662.**

Sculpture – 768

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5 (Repeatable to 1.0 credit)

Sculpture is a course designed to provide experience in generating original ideas for three-dimensional works of art. Problem-solving and critical thinking skills will be stressed. A variety of media techniques and styles will be explored. Artwork from a variety of artists, cultures, and time periods will be critiqued and examined. Students will develop a personal, creative style. Students will supply some materials. **Students wishing to take this course for a full year should use code 7682.**

Photography – 770

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5

Photography is designed to provide a visual experience through digital and/or black and white film based upon approaches to subject matter, themes, history of photography, criticism, and aesthetics. Students will apply these to their work through the use of composition, design, and/or darkroom techniques. Students with their own 35mm film camera with adjustable aperture, shutter and focus, are encouraged to bring their camera to class. Students may supply some materials. Some school issued cameras are available.

Painting – 772

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5 (Repeatable to 1.0 credit)

Painting is designed to provide visual experience in painting that is broad in scope and that will challenge the student's creative potential. The course will encourage a personal approach and interpretation to painting as well as develop related skills and techniques of painting, art history, criticism, and aesthetics. Students will supply some materials. **Students wishing to take this course for a full year should use code 7722.**

*Drawing – 774/V774

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5 (Repeatable to 1.0 credit in person only)

Drawing will provide the students with guided opportunities to develop their drawing skills as work is completed in various media. Drawing from life is a requirement. Related coursework in art history, criticism, and aesthetics will also be provided. Students will supply some materials. **Students wishing to take this course for a full year should use code 7742.**

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.

Advanced Photography – 778

Graded: Conventional Grades: 10-12 Time Frame: Semester Credit: 0.5 (Repeatable to 1.0 credit)
Prerequisite: Photography

Advanced Photography is for the student who was successful in Photography and wants to continue the study of black and white photography with an emphasis placed upon the use of the elements and principles of design. Students will explore advanced photographic processes, and Digital Photography may be explored. This experience is based upon approaches to subject matter, themes, history of photography, criticism and aesthetics. A concentration will be placed upon the development of personal style. Students will supply some materials. **Students wishing to take this course for a full year should use code 7782.**

Advanced Placement Art History – 782

Graded: AP/IB/CCP Weight Grades: 10-12 Time Frame: Year Credit: 1.0

AP Art History is designed to lead students through history using a study of art forms from each period as visual references. Students begin studying art of the ancient world and progress through the ancient Near East, Egypt, Aegean, Greek, Etruscan, Roman, and Early Christian Art up to the Art of the Middle Ages. Second semester is concerned with the study of art beyond Europe and the examination of native arts of Asia, the Americas, and of Oceania, followed by a return to Europe and the Renaissance, Baroque, Rococo, Modern, and Postmodern Art. During this course students will visit both online, "virtual" and local museums and art galleries and will be taking part in ongoing research projects, both individual and groups. The course is intended to prepare students to take the AP exam for possible college credit.

Advanced Placement 2-D Art & Design – 784

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: Year Credit: 1.0 (Repeatable)
Prerequisite: **Two** of the following courses: Art Foundations, Drawing, Painting, Graphic Design, Sculpture, Ceramics, Photography, Computer Graphics

This course is designed to lead students through construction of a quality portfolio. Students will develop 2-D skills through materials and processes such as graphic design, photography, collage, printmaking, fashion illustration, collage, and others. They will create artwork that reflects their ideas and skills learned. Students will investigate the materials, processes, and ideas that artists and designers use. They will practice, experiment, and revise as they create artwork. Students will communicate their ideas about works of art and design. The course is intended to prepare students to take the AP exam for possible college credit.

Advanced Placement 3-D Art & Design – 785

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: Year Credit: 1.0 (Repeatable)
Prerequisite: Two of the following courses: Art Foundations, Drawing, Painting, Graphic Design, Sculpture, Ceramics, Photography, Computer Graphics

This course is designed to lead students through construction of a quality portfolio using the skills that artists and designers use. Students will develop 3-D skills in materials and processes such as sculpture, architectural rendering and models, metal work, ceramics, glass work, and others. They will create artwork that reflects their ideas and skills learned. Students will investigate the materials, processes, and ideas that artists and designers use. They will practice, experiment, and revise as they create artwork. Students will communicate their ideas about works of art and design. The course is intended to prepare students to take the AP exam for possible college credit.

Advanced Placement Drawing – 786

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: Year Credit: 1.0 (Repeatable)
Prerequisite: Two of the following courses: Art Foundations, Drawing, Painting, Graphic Design, Sculpture, Ceramics, Photography, Computer Graphics

This course is designed to lead students through construction of a quality portfolio using the skills that artists and designers use. Students will develop skills in drawing as you experiment with different materials and processes. They will create artwork that reflects their ideas and skills learned. Students will investigate the materials, processes, and ideas that artists and designers use. They will practice, experiment, and revise as they create artwork. Students will communicate their ideas about works of art and design. The course is intended to prepare students to take the AP exam for possible college credit.

**IB Visual Arts (SL) – 531 – Year 1 / 532 – Year 2
**IB Visual Arts (HL) – 533 – Year 1 / 534 – Year 2

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: 2 Years Credit: 1.0 Year 1 / 1.0 Year 2
Prerequisite: Art Foundations, Drawing and/or Painting recommended

IB Visual Arts is a rigorous two-year course focusing on three areas of art studies: art making through a personal exhibition, research through a comparative study, and practice through a process portfolio. In addition to researching and comparing visual arts from a variety of local, regional, national, international and intercultural perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. Through inquiry, investigation, reflection and creative application, visual arts students develop an appreciation for the expressive and aesthetic diversity in the world around them, becoming critically informed makers and consumers of visual culture. The SL and HL courses are two years in length and is intended to prepare students to complete all internal assessments and the corresponding IB exam. Students will supply some materials. **This course fulfills a Group 6 requirement for the IB Diploma.**

**Offered only at Emerald Campus, travel required with transportation available.

WELLNESS

Note: Wellness courses provide learning opportunities for students to understand important health and goal setting skills, develop personal physical fitness levels, and participate in individual and team activities. Courses are focused on developing and maintaining a healthy, active, and financially productive lifestyle. Students must earn at least 0.5 credit in physical education (unless eligible for a physical education waiver), 0.5 credit in health and 0.5 in financial literacy to meet graduation requirements. Additional courses within the wellness department may be taken as electives to assist in meeting personal health and fitness goals.

Note: PE & Health courses do not count towards the 5 elective credits required for graduation or OHSAA eligibility.

*Health Education - 921/V921

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.5

Health Education stresses the individual's physical, mental, emotional, and social development. The intent of the Health course is to help young people make independent, informed decisions concerning their well-being. Course topics include First Aid and CPR; diseases and disorders; mental health; stress; nutrition; the structure of specific body systems; human sexuality; and substance abuse.

Sports & Fitness - 930

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.25 (Repeatable)

This course blends team & individual sports with a regular fitness component. Students in this class will participate in large and small team activities as well as some individual/partner fitness activities. Class sports could include, but are not limited to: softball, volleyball, floor hockey, ultimate frisbee, soccer, basketball, touch football, group games, badminton, archery, table tennis, and team handball. During the fitness portion of the class, students will participate in the fitness components while they learn to design, incorporate and live a healthy and active life. Activities may include (but are not limited to) weight training, jogging, circuit training, and video-based training which will emphasize muscular strength, muscular endurance, cardiovascular endurance, flexibility and body composition. Students will develop an understanding of the components of physical fitness and the benefits of an active lifestyle. **Students wishing to take this course for a full year should use code 9302.**

*Fitness Trends - 931/V931

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.25 (Repeatable in person only)

Students in this course will participate in a variety of aerobic activities, evaluate personal fitness levels, develop and track personal fitness goals, and demonstrate knowledge of nutrition and responsible eating plans. Activities may include, but are not limited to: low and high impact aerobics, circuit training, Pilates, core/stability work, jump rope, and jogging. Students will develop an understanding of the components of physical fitness and the benefits of an active lifestyle. Students will be able to track progress through the use of technology. Students will develop an understanding of the components of physical fitness and the benefits of an active lifestyle. **Students wishing to take this course for a full year should use code 9312.**

Basic Strength Training & Fitness - 932

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.25

This course is designed for those students with little or no prior strength training experience. Students will be instructed in proper lifting and spotting techniques alongside safety procedures. Students will be introduced to the benefits of strength training and its contributions to overall health. Workouts will be customized to meet the individuals' desired goals. Students will develop activity and personal fitness plans to meet their needs while gaining an understanding of the components of physical fitness and the benefits of an active lifestyle.

Competitive Sports, Games and Tournaments – 933

Graded: Conventional | Grades: 9-12 | Time Frame: Semester | Credit: 0.25 (Repeatable)

This course is a competitive, tournament style class in which students will participate in a variety of team and individual activities. Students will have an opportunity to practice game and sportsmanship skills while focusing on leadership, decision-making, and communication. This class will incorporate activities to enhance lifelong recreational participation. Students will understand the components of physical fitness and the benefits of a physically active lifestyle while participating in competitive team activities. Activities may include, but are not limited to: flag football, basketball, soccer, disc golf, badminton, pickleball, table tennis, speedball, team handball, volleyball, softball, ultimate frisbee, floor hockey, team Olympics, and recreational games. **Students wishing to take this course for a full year should use code 9332.**

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.

Advanced Strength Training For Athletes - 934

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.25 (Repeatable)
Prerequisite: Member of a high school sports program or Basic Strength Training & Fitness

This weightlifting course is for students who have had previous experience in the Basic Strength Training & Fitness class or are currently in a sport at the high school. In this course, students will receive instruction in advanced lifting techniques to improve overall athleticism and decrease the risk of injury. Teachers will work in collaboration with student athletes and coaches to allow time for sport specific components. Additional activities in this course may include, but are not limited to: agility training, core strength, plyometrics, flexibility development, cardiovascular conditioning and health related components. **Students wishing to take this course for a full year should use code 9342.**

*Wellness & Individualized Fitness – 935/V935

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.25 (Repeatable in person)

This course is designed for the individual who has interest and goals that may be more individualized than those available in other courses. Students will pursue personal goals in targeted exercise and general conditioning programs tailored to student need. They will develop an exercise program to meet their individual goals and track their progress towards those goals over time. Additional topics and class activities may include, but are not limited to: Pilates, agility training, plyometrics, flexibility development, cardiovascular exercise and other health related topics. This class will also emphasize the benefits of exercise in relation to relieving stress and anxiety in the school day. **Students wishing to take a full year should use code 9352.**

*Financial Literacy – 440/V440

Graded: Conventional Grades: 9-12 Time Frame: Semester Credit: 0.5

This course introduces students to real-world concepts related to personal finance and money management. More specifically, it examines financial matters such as saving, investing, student loans, debt repayment, credit cards, risk management, and budgeting. Students engage in hands-on scenarios in which they will learn to prepare for, overcome, and avoid financial crises. Based on the skills and knowledge applied in this course, students will develop financial goals, and create realistic and measurable objectives to be financially literate and money smart.

*Course also offered virtually through DCS Virtual. Read more about DCS Virtual.

WORLD LANGUAGES

**Chinese I – 105

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0

This course will introduce students to the basics of Chinese language and culture. The focus will be on tones and basic communication skills in target language in listening, speaking, reading, writing and cultural etiquette. Those basic skills are used to help students develop confidence, competence and appreciation of the language and culture on an elementary level. Upon completion of the course, the anticipated proficiency level for students is novice-mid.

**Chinese II – 106

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Chinese I

With Chinese I as a foundation, students at this level continue to build, expand and acquire their communication skills in target language. They will further develop and strengthen their comprehension skills in Chinese. Listening and speaking will be emphasized via daily use of Chinese in the classroom and beyond. Reading and writing practice will be integrated. Students will continue to gain Chinese historical and cultural perspectives. Upon completion of the course, the anticipated proficiency level is novice-high.

**Chinese III – 107

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Chinese II

Particular emphasis in this course is on proficiency in more advanced Chinese, with special focus on longer and less scripted interactions with Chinese speakers, and on broader and more complex topics in speaking and written forms. Chinese culture, history and geography are further integrated through authentic cultural realia, reading materials, videos and group discussions. Cartoons, idioms and short stories will continue to be part of the more in-depth language and cultural study. Upon completion of the course, the anticipated proficiency level for students is intermediate-low.

French I – 078

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0

French I is an introduction to basic French vocabulary and pronunciation and builds a foundation in speaking and understanding the language. Some writing and reading follow in the development of language skills. Students also become acquainted with the French-speaking world and its people and gain insight into the cultural similarities and differences between them and the United States. Upon completion of the course, the anticipated proficiency level for students is novice-mid.

French II – 079

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: French I

French II develops more fully the student's ability to listen, speak, read, and write in French. Oral skills will be taught through daily use of French in the classroom. Reading and writing skills are further developed. Students will continue to gain cultural knowledge. Upon completion of the course, the anticipated proficiency level for students is novice-high.

French III – 080

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: French II

French III continues to develop comprehension, communication, listening, and writing skills. Students continue to encounter more advanced grammar and perfect the French they have already learned. Aspects of culture are also studied. Upon completion of the course, the anticipated proficiency level for students is intermediate-low.

Honors French IV – 083

Graded: Honors Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: French III

Students continue to build their language proficiency as they further develop their listening, reading, writing and speaking skills while exploring culturally-rich themes. Students read a variety of texts, fiction and nonfiction, with emphasis on authentic resources and are expected to use French for communication in this class. Upon completion of the course, the anticipated proficiency level for students is intermediate-mid.

**Offered only at Emerald Campus, travel required with transportation available.

Advanced Placement French – 084

Graded: AP/IB/CCP Weight Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Honors French IV

The AP French Language and Culture course emphasizes communication by applying interpersonal, interpretive, and presentational skills in practical situations. This course engages students in an exploration of culture in both contemporary and historical contexts while developing students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). The course is intended to prepare students to take the AP exam for possible college credit.

German I – 070

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0

German I provides an introduction to German as a language and an overview of the cultural background of German speakers. Emphasis is placed on effective communication, acquiring proficiency in the target language, as well as the development of an appreciation for other cultures. Listening, speaking, reading, and writing are used to provide students an opportunity to develop the confidence and skills necessary to comprehend basic German and to express themselves on an elementary level in the target language. Upon completion of the course, the anticipated proficiency level for students is novice-mid.

German II – 071

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: German I

German II continues to develop the student's ability to listen, speak, read, and write in German. Oral skills will be taught through daily use of German in the classroom. Reading and writing skills are reviewed and developed. Cultural similarities and differences and a study of the German-speaking people will be emphasized. Upon completion of the course, the anticipated proficiency level for students is novice-high.

German III – 072

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: German II

German III emphasizes the development of communication, comprehension, listening, and writing skills on a more advanced level. Students will be exposed to a more in-depth study of German culture, literature, history, science, and the arts. Upon completion of the course, the anticipated proficiency level for students is intermediate-low.

Honors German IV – 074

Graded: Honors Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: German III

Students continue to build their language proficiency as they further develop their listening, reading, writing and speaking skills while exploring culturally-rich themes. Students read a variety of texts, fiction and nonfiction, with emphasis on authentic resources and are expected to use German for communication in this class. Upon completion of the course, the anticipated proficiency level for students is intermediate-mid. Seniors may elect to take the German Advanced Placement examination.

Advanced Placement German – 075

Graded: AP/IB/CCP Weight. Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Honors German IV

The AP German Language and Culture course emphasizes communication by applying interpersonal, interpretive, and presentational skills in practical situations. This course engages students in an exploration of culture in both contemporary and historical contexts while developing students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). The course is intended to prepare students to take the AP exam for possible college credit.

Japanese I – 100

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0

Japanese I provides an introduction to the basic skills of understanding, speaking, reading, and writing in Japanese. Romanization, Kana, and Kanji (Chinese characters) will be taught. The interrelationships between Japanese culture and language will be explored. A strong foundation in English grammar is recommended.

WORLD LANGUAGES

Japanese II – 101

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Japanese I

Japanese II requires the development of a basic vocabulary in Japanese as well as mastery of the Hiragana and Katakana syllabaries. Students will further develop speaking and comprehension skills and reading and writing using Kanji and Kana. Japanese history and culture will be further explored.

Japanese III – 102

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Japanese II

Japanese III requires fluency in Hiragana and Katakana usage. Students will continue to develop comprehension, communication, listening, and writing skills. Study of Kanji (Chinese characters) will be explored as well as special projects in culture.

Advanced Placement Japanese – 103

Graded: AP/IB/CCP Weight Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Japanese III

The AP Japanese Language and Culture course emphasizes communication by applying interpersonal, interpretive, and presentational skills in practical situations. This course engages students in an exploration of culture in both contemporary and historical contexts while developing students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). The course is intended to prepare students to take the AP exam for possible college credit.

Spanish I – 095

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0

Spanish I provides an introduction to basic communication skills of writing, reading, listening, and speaking in Spanish. The student also becomes acquainted with Spanish speaking countries and gains some insight into the cultural similarities and differences between those Hispanic countries and the United States. Upon completion of the course, the anticipated proficiency level for students is novice-mid.

Spanish II – 096

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Spanish I

Spanish II continues to develop the student's ability to listen, speak, read, and write in Spanish. Oral skills will be taught through daily use of Spanish in the classroom. Reading and writing skills are reviewed and developed. Cultural similarities and differences and a study of Spanish speaking cultures will be emphasized. Upon completion of the course, the anticipated proficiency level for students is novice-high.

Spanish III – 097

Graded: Conventional Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Spanish II

Spanish III continues to develop comprehension, communication, listening, and writing skills. Students encounter more advanced grammar and further develop the Spanish they have already learned. The course continues the study of Spanish culture and introduces Hispanic literature. Upon completion of the course, the anticipated proficiency level for students is intermediate-low.

Honors Spanish IV - 098

Graded: Honors Grades: 9-12 Time Frame: Year Credit: 1.0
Prerequisite: Spanish III

Students continue to build their language proficiency as they further develop their listening, reading, writing and speaking skills while exploring culturally-rich themes. Students read a variety of texts, fiction and nonfiction, with emphasis on authentic resources and are expected to use Spanish for communication in this class. Upon completion of the course, the anticipated proficiency level for students is intermediate-mid.

WORLD LANGUAGES

Advanced Placement Spanish - 099

Graded: AP/IB/CCP Weight Grades: 10-12 Time Frame: Year Credit: 1.0
Prerequisite: Honors Spanish IV

The AP Spanish Language and Culture course emphasizes communication by applying interpersonal, interpretive, and presentational skills in practical situations. This course engages students in an exploration of culture in both contemporary and historical contexts while developing students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). The course is intended to prepare students to take the AP exam for possible college credit

**IB Spanish B (SL) – 539 – Year 1 / 540 – Year 2
**IB Spanish B (HL) – 559 – Year 1 / 560 – Year 2

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: 2 Years Credit: 1.0 Year 1 / 1.0 Year 2
Prerequisite: Spanish III

Spanish Language B HL/SL gives students the opportunity to reach a high level of proficiency in the four primary skills of language learning: reading, writing, listening and speaking. Spanish B challenges us to consider our role in the international community and explore issues of internationalism. Those seeking to take this course at the HL level will need to distinguish themselves from their counterparts in degree of refinement with regard to both grammar control and overall expression. Upon completion of year 1, the anticipated proficiency level is intermediate-mid. Upon completion of year 2, the anticipated proficiency level is intermediate-high. These SL and HL courses are two years in length and are intended to prepare students to complete all internal assessments and the corresponding IB exam. **This course fulfills a Group 2 requirement for the IB Diploma.**

**IB German B (SL) – 561 – Year 1 / 562 – Year 2
**IB German B (HL) – 563 – Year 1 / 564 – Year 2

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: 2 Years Credit: 1.0 Year 1 / 1.0 Year 2
Prerequisite: German III

German Language B HL/SL gives students the opportunity to reach a high level of proficiency in the four primary skills of language learning: reading, writing, listening and speaking. The very nature of German B is such that it challenges us to consider our role in the international community and explore issues of internationalism. Those seeking to take this course at the HL level will need to distinguish themselves from their counterparts in degree of refinement with regard to both grammar control and overall expression. Upon completion of year 2, the anticipated proficiency level is intermediate-high. These SL and HL courses are two years in length and are intended to prepare students to complete all internal assessments and the corresponding IB exam. **This course fulfills a Group 2 requirement for the IB Diploma.**

**IB French B (SL) – 565 – Year 1 / 566 – Year 2
**IB French B (HL) – 567 – Year 1 / 568 – Year 2

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: 2 Years Credit: 1.0 Year 1 / 1.0 Year 2
Prerequisite: French III

French Language B HL/SL gives students the opportunity to reach a high level of proficiency in the four primary skills of language learning: reading, writing, listening and speaking. Both courses challenge students to consider their role in the international community and explore issues of internationalism. Those seeking to take this course at the HL level will need to distinguish themselves from their counterparts in degree of refinement with regard to both grammar control and overall expression. Upon completion of year 1, the anticipated proficiency level is intermediate-mid. Upon completion of year 2, the anticipated proficiency level is intermediate-high. These SL and HL courses are two years in length and are intended to prepare students to complete all internal assessments and the corresponding IB exam. **This course fulfills a Group 2 requirement for the IB Diploma.**

**IB Mandarin Chinese B (SL) – 573 – Year 1 / 574 – Year 2

Graded: AP/IB/CCP Weight Grades: 11-12 Time Frame: 2 Years Credit: 1.0 Year 1 / 1.0 Year 2
Prerequisite: Chinese III

IB Chinese Language B gives students the opportunity to reach a high level of proficiency and enhance their learning experience through the four primary skills of language learning: reading, writing, listening and speaking. Authentic materials will be regularly introduced to the students to help them make connections between what they learn and what real-life scenarios would be like, and how to handle some of those situations in target cultures. Upon completion of the course, the anticipated proficiency level is intermediate low-mid. This course is two years in length and is intended to prepare students to complete all internal assessments and the corresponding IB exam. **This course fulfills a Group 2 requirement for the IB Diploma.**

**Offered only at Emerald Campus, travel required with transportation available.

WORLD LANGUAGES

**CSCC Beginning ASL I (ASL 1101) – CSASL1101

Graded: AP/IB/CCP Weight Grades: 9-12 Time Frame: First Semester (5 days a week) Credit: 3.0 College credits (1.0 HS credit)
Prerequisite: Acceptance into CSCC College Credit Plus Program 3.000 unweighted GPA or eligibility score (Accuplacer Writing 5+; Reading Score)
Corequisite: Participation at Emerald Campus requires participation in both of the ASL courses offered

This course introduces the fundamental elements of American Sign Language within a cultural context. It focuses on everyday interactions and brief monologues in ASL. Grammar and vocabulary are presented in context, using ASL as the language of instruction. Additional information about the Deaf community and culture is introduced. **See the CCP portion of this document for specific eligibility information and application steps.**

**CSCC Beginning ASL II (ASL 1102) – CSASL1102

Graded: AP/IB/CCP Weight Grades: 9-12 Time Frame: Second Semester (5 days a week) Credit: 3.0 College credits (1.0 HS credit)
Prerequisite: ASL 1101 with a minimum grade of "C"
Corequisite: Participation at Emerald Campus requires participation in both of the ASL courses offered

This course is a continuation of ASL 1101 Beginning ASL I. Students further acquire the fundamental elements of American Sign Language grammar and vocabulary in context through interactions and short monologues. ASL production and comprehension skills continue to develop, with an emphasis on comprehension of ASL. Knowledge and application of cultural norms and values continue to develop. ASL is the language of instruction for this course.
See the CCP portion of this document for specific eligibility information and application steps.

**CSCC Beginning Arabic I (ARAB 1101) – CSARAB1101

Graded: AP / IB / CCP Weight Grades: 9-12 Time Frame: First Semester Credit: 4.0 College credits (1.0 HS credit)
Prerequisite: Acceptance into CSCC College Credit Plus Program 3.000 unweighted GPA or eligibility score (Accuplacer Writing5+; Reading Score)

Beginning Arabic I is an introduction to the fundamentals of the Arabic language with practice in listening, reading, speaking and writing. Course includes studies in Arabic culture. **See the CCP portion of this document for specific eligibility information and application steps.**

**CSCC Beginning Arabic II (ARAB 1102) – CSARAB1102

Graded: AP/IB/CCP Weight Grades: 9-12 Time Frame: Second Semester Credit: 4.0 College credits (1.0 HS credit)
Prerequisite: ARAB 1101 with a grade of "C" or better

Beginning Arabic II is a continuation of Beginning Arabic I with further development of listening, reading, speaking and writing skills and further study of Arabic culture. **See the CCP portion of this document for specific eligibility information and application steps.**

**Offered only at Emerald Campus, travel required with transportation available.

OFF CAMPUS PARTNERSHIPS

tolles

Tolles is the career center associated with Dublin City Schools. It is located in Plain City, Ohio and offers a wealth of programs for students in 11 college and career areas. Students will have an opportunity to visit Tolles during their 10th grade year. Tolles hosts an Open House in early December each year. Most of the programs offered at Tolles are for 11th and 12th grade students, and students can choose which years they participate when they apply. Students can choose to take advantage of courses at Tolles through half day or full day attendance, and can elect to add required academic classes to their Tolles programming. Academic and career-tech instructors align curriculum to ensure high level preparation for real-world careers.

Tolles offers a modernized and personalized approach to the educational experience through hands-on experience and rich technology integration, as well as blended, online, and project-based learning. Students taking advantage of the Tolles offerings have access to the best technology and equipment to gain a valuable career-technical skill set and to prepare effectively for the workforce. Tolles teachers and support staff go above-and-beyond to provide extra assistance to students. This includes the Learning Resource Center, which serves all students, all the time, and provides tutoring, testing prep and assistance, bilingual services, and more.

Nearly all of Tolles' career-technical programs have bi-lateral and statewide articulation agreements in place for students to earn college credit for free while enrolled. Through these articulation agreements, students can seamlessly carry college credit, both transcripted and non-transcripted, for free onto college and university partners in order to continue their education after high school. There are also opportunities to earn college credit through optional College Credit Plus courses. Another hallmark of Tolles programming is the opportunity to sit for nationally and internationally recognized and endorsed industry credentials, certifications, and licensures.

Interested students should speak to their school counselors for further information, as well as visit the Tolles website: **http://www.tollestech.com**.

Click here to find a list of the available Tolles Pathways Programs.

ZOO SCHOOL

If you are an independent, curious, outstanding student and have a strong interest in research and a career related to zoos, animals, or science, then explore this very unique program that meets daily at the Columbus Zoo & Aquarium in conjunction with the Delaware Area Career Center (DACC). This program is academically rigorous. Students should be prepared for an academic and highly collaborative experience, possess strong time management skills, a desire to produce high quality work, and be a self-directed learner. Strong skills in science are encouraged. In addition to the application, entrance requirements include: Zoo Research School readiness exam and a minimum of 3 recommendations. Visit the DACC website for a list of credits earned through this program.

Program Highlight
Weave zoology, statistics, research design, technical paper development, technology, and your love of the animal kingdom together in a very special environment.

Career Pathways include but are not limited to:

- Animal Behavior
- Conservation
- Ecology Education
- Field Research
- Genetics
- Marine Biology
- Animal Training, Animal Rescue/Rehabilitation
- Veterinary Science
- Human/Animal Medicine
- Zoology

Location:
Columbus Zoo & Aquarium

Grade Level
Junior and Senior

Additional Fees apply

Students must provide their own transportation to and from the Columbus Zoo.

Students interested in Zoo School should schedule time with their assigned school counselor.
For Enrollment Information, visit the Delaware Area Career Center's website.

OFF CAMPUS PARTNERSHIPS

MOSAIC

MOSAIC is a program sponsored by the Educational Services Center of Central Ohio designed to provide students from surrounding districts with Experiential Learning in the Humanities. Mosaic is designed for high school juniors and seniors who are:

- Independent, original thinkers
- Intellectually curious, creative, or unique
- Motivated by "real life" learning experiences
- Interested in the arts and creative expression
- Committed to having a voice and making a difference
- Responsible for self-direction.

Students attend their district high school in the morning or afternoon and self-transport to Mosaic for the other half of the school day. First year Mosaic seniors and juniors typically attend the afternoon session from 12:50-3:00pm. For students in participating districts enrollment fees are paid for by the district. At the end of each grading period, grades are reported back to the student's district to be recorded on their highschool transcripts.

Year 1 - MOS 1

Mosaic Gov't & Politics - MCY11 / MCY12	Time Frame: 2 semesters
Mosaic Int Language Arts - MEY 11 / MEY 12	Time Frame: 2 semesters
Mosaic Capstone Project - MSY 11 / MSY 12	Time Frame: 2 Semesters (periods 5-7)

Year 2 - MOS 2

Mosaic Contemporary Social Issues -MAY21 / MAY22	Time Frame: 2 semesters
Mosaic Creative Writing - MCY21 / MCY22	Time Frame: 2 semesters
Mosaic Int Language - MEY21 MEY22	Time Frame: 2 semesters (periods 1-3)

****Students interested in Mosaic should schedule time with their school counselor to discuss course details. For additional program information, visit the Education Service Center of Central Ohio's website.**

GRADE PLACEMENT, GRADING SCALE & CREDIT DETAILS

GRADE PLACEMENT

Students are classified by grade level based on the first year students are enrolled in the 9th grade. Below is the minimum credit recommendation for students to be on track for graduation.

- Grade 9: Successful completion of Grade 8
- Grade 10: 5.0 credits and one year of high school
- Grade 11: 10.0 credits and two years of high school
- Grade 12: 15.0 credits and three years of high school
- Graduate: 21.0 credits, four years of high school, competency on state mandated exams and successful completion of two graduation seals

MINIMUM COLLEGE REQUIREMENTS

• **English**	**4 Credits**
• **Mathematics** (Algebra I, Geometry, and Algebra II or Equivalent)	**4 Credits**
• **Science**	**3 Credits**
• **Social Studies**	**3 Credits**
• **World Language**	**2 Credits**
• **Visual / Performing Arts**	**1 Credit**

GRADING SCALE

Grade	Percentage	Weight
A	93-100	4.00
A-	90-92	3.67
B+	87-89	3.33
B	83-86	3.00
B-	80-82	2.67
C+	77-79	2.33
C	73-76	2.00
C-	70-72	1.67
D+	67-69	1.33
D	63-66	1.00
D-	60-62	0.67
F	59-Below	0.00

HONORS GRADING SCALE

Grade	Percentage	Weight
A	93-100	4.50
A-	90-92	4.17
B+	87-89	3.83
B	83-86	3.50
B-	80-82	3.17
C+	77-79	2.83
C	73-76	2.50
C-	70-72	2.17

Honors courses receive an additional 0.5 value. Grades of D+ and lower in these courses do not receive the added point value.

AP / IB / CCP GRADING SCALE

Grade	Percentage	Weight
A	93-100	5.00
A-	90-92	4.67
B+	87-89	4.33
B	83-86	4.00
B-	80-82	3.67
C+	77-79	3.33
C	73-76	3.00
C-	70-72	2.67

AP, IB and CCP courses receive an additional 1.00 value. Grades of D+ and lower in these courses do not receive the added point value.

TRANSFER OF GRADES AND CREDIT

Students from international schools will be awarded a grade of "S" or "U" for all courses appearing on the transcript. Credit will be awarded based on the hours of class completed. "S" or "U" grades do not calculate in the student's GPA.

When a student transfers to a Dublin high school from another state public or charter school, letter grades awarded by the previous school are recognized by Dublin City Schools. Grades awarded by other state public or charter schools are recalculated using the Dublin high school grading scale to determine the GPA. When a student transfers into a Dublin high school with a weighted grade in a course that Dublin does not offer or with a course that Dublin does not offer as a weighted grade, the weight will not be calculated in the student's GPA.

The intent of this policy is to honor the integrity of the institution issuing the grade and credit as well as ensuring that all Dublin high school students graduate with grades and credits that are aligned to the Dublin City Schools grading scale.

GRADUATION REQUIREMENTS

Requirements for graduation from Dublin Coffman, Dublin Jerome, and Dublin Scioto High School meet the minimum standards as established by the State of Ohio and the Board of Education of Dublin City Schools. Students will review the graduation requirements and update their graduation plans annually and are responsible for periodically evaluating past, present and future program of studies to ensure graduation requirements are met. Students should also periodically monitor their transcripted courses and grade point calculations. Below are the minimum graduation requirements:

SUBJECT AREA	CREDITS REQUIRED	ADDITIONAL NOTES
English Language Arts	4 credits	Must be selected from Core Options
Mathematics	4 credits	Must include 1 unit Algebra II or equivalent
Science	3 credits	Must include 1 unit Physical Science, 1 unit of Life Science and 1 Advanced Science (See indications in Science course descriptions. Advanced Sciences include all science courses offered.)
Social Studies	3 credits	Must include 1 unit of World History, 1 unit of American History and ½ unit of American Government (indicated in course descriptions)
*Fine Arts	1 credit	All students must complete at least 2 semesters of Visual or Performing Arts. Students following a career-technical pathway will have this requirement waived. See Waiver Details below.
**Physical Education	½ credit	See Waiver Details below.
Health	½ credit	
Financial Literacy	½ credit	
Electives	4 ½ credits, any elective	Elective units must include one or any combination of World Language, Fine Arts, Business, Career-Technical Education, Family and Consumer Sciences, Technology, Agricultural Education or English Language Arts, Mathematics, Science or Social Studies courses not required.
21 Course Credits Needed for Graduation		

Student Responsibilities

- Athletes are required to monitor their academic program and progress to ensure eligibility.
- Students not academically eligible to participate in commencement with their class have until the day before the first day of the following school year to complete those requirements.

Waiver Details

***Visual/Performing Arts Waiver** - Students in the career-technical pathways listed here will have the Fine Arts requirement waived: Media Marketing Academy, Dublin Business Academy, IT Academy and any Tolles Program. The career-technical pathway is interpreted as a minimum of one credit or one year in coursework representing coherent, sequential career-technical content. These students still need to earn 21 credits to meet graduation requirements.

****Physical Education Waiver** - Students who participate in at least 2 full seasons of Interscholastic Athletics or Marching Band may have the PE requirement waived. Students must complete a Physical Education waiver application to excuse the requirement.

- Participation must be documented by the School Counselor and the Athletic Director.
- Students completing the waiver and taking 0 semesters of physical education shall complete ½ unit of at least 60 hours of instruction in another course of study.
- Students completing the waiver and taking 1 semester of physical education shall complete ½ unit of at least 60 hours of instruction in another course of study.
- Students completing the waiver and taking 2 semesters of physical education do not have to take any additional units in another course of study.

GRADUATION REQUIREMENTS COMPETENCY & SEALS

Ohio Graduation Requirements

Students in the State of Ohio must meet current graduation requirements which consist of three key components:

1. **Course Completion** - Students will satisfy the course requirements listed on the previous page.

2. **Demonstrate Competency**- Students must demonstrate competency in Math and English by passing the state's Algebra I and English II tests. Students who have taken required tests more than once without passing and have received remedial support are able to show competency through one of the options below:

    - Earn a credit for one Math and/or one English course through College Credit Plus;
    - Demonstrate career readiness and technical skill through foundational and supporting options;
    - Enter into a contract to enlist in the military upon graduation.
    - Earn a remediation-free score on the ACT or SAT in the subject area in which students did not meet the competency requirement

3. **Demonstrating Readiness (Seals)** - Students will demonstrate readiness for their post-high school paths by earning two diploma seals that allow them to demonstrate important foundational and well-rounded academic and technical knowledge, professional skills, leadership and reasoning skills. One seal must be state defined.

Please visit the Dublin City Schools website to view additional details.

DIPLOMA SEALS

STATE SYSTEM OF DIPLOMA SEALS

State-Defined Diploma Seals (Students must earn at least one state seal)	
Seal	**Requirements**
 **Citizenship Seal**	To earn Ohio's Citizenship Seal, students must satisfy one of the listed American History options and one of the listed American Government options: 1. Earn a score of proficient or higher on both the American history and American government end-of-course exams; 2. Earn a final course grade equivalent to "B" or higher in American history and American government; 3. Earn a score of "2" or higher on the applicable Advanced Placement exam; or 4. Earn a final course grade that is equivalent to a "B" or higher in appropriate classes taken through the College Credit Plus program. 5. Earn a score of "3" or higher on the applicable IB Standard-Level (SL) exam or a "2" or higher on the associated Higher-Level (HL) exam.
 **College-Ready Seal**	Earn remediation-free scores on the ACT or SAT.
 **Honors Diploma Seal**	Earn one of five Honors Diplomas outlined below: • Academic Honors Diploma; • International Baccalaureate Honors Diploma; • Career Tech Honors Diploma; • STEM Honors Diploma; • Arts Honors Diploma; • Social Science and Civic Engagement Honors diploma.
 **Industry-Recognized Credential Seal**	To earn Ohio's Industry-Recognized Credential Seal, students must do one of the following: 1. Earn a 12-point approved industry-recognized credential or group of credentials totaling 12 points in a single career field. 2. Obtaining a state-issued license for a practice in a vocation that requires an examination in one.
 **Military Enlistment Seal**	Provide evidence that a student has enlisted in a branch of the U.S. Armed Forces.

STATE SYSTEM OF DIPLOMA SEALS

Seal	Requirements
OhioMeansJobs Readiness Seal	Meet the requirements and criteria established for the readiness seal, including demonstration of work -readiness and professional competencies in : drug free, reliability, work ethic, punctuality, discipline, teamwork, professionalism, learning agility, critical thinking, leadership, creativity, communication, digital technology, global fluency, career management. Students must work with at least three experienced and trusted mentors who validate the demonstration of these skills in school, work, or the community. Seal verification form will be completed in Schoolinks.
Science Seal	To earn Ohio's Science Seal, students must satisfy at least one of the following: 1. Earn a score of proficient or higher on the biology end-of-course exam; 2. Earn a final course grade equivalent to "B" or higher in specified science course*; 3. Earn a score of "2" or higher on the applicable Advanced Placement exam; or 4. Earn a final course grade that is equivalent to a "B" or higher in an appropriate class taken through the College Credit Plus program.
Seal of Biliteracy	Meet the requirements and criteria, including: • Demonstrate eligibility for a high school diploma; • Demonstrate English language arts proficiency; and • Demonstrate world language proficiency English proficiency is determined by scores on one of the following English assessments: English Language Arts II End-of-Course assessment, OELPA 9-12 Band, ACT, or SAT. World Language proficiency is determined by scores on one of the following world language assessments: Advanced Placement, International Baccalaureate, STAMP 4S or any other state approved world language proficiency assessments.
Technology Seal	To earn Ohio's Technology Seal, students must satisfy at least one of the following: 1. Earn a score of "2" or higher on the applicable Advanced Placement exam; 2. Earn a final course grade that is equivalent to a "B" or higher in an appropriate class taken through the College Credit Plus program; or 3. Complete and pass a course offered through the district or school that meets guidelines developed by the Department. Students must complete a portfolio and a culminating project.

STATE SYSTEM OF DIPLOMA SEALS

Locally-Defined Diploma Seals	
Seal	**Requirements**
 **Community Service Seal Locally Defined**	During high school, students will earn a total of 80 total hours. Students must earn a minimum of 5 hours at the same location/organization for at least one community service experience. Students who transfer in during junior/senior will receive a prorated requirement: • Students starting in January or later during their senior year: 20 hours • Students starting fall of senior year: 40 hours • Students starting in January or later during their junior year: 60 hours • Students enrolling before January of their junior year: 80 hours
 **Fine and Performing Arts Seal Locally Defined**	Students will complete one of the following requirements: 1. Earn 2 credits of approved fine arts program electives (Performing Arts, Visual Arts, Media Arts, Biomedical Art) 2. 60 hours of individualized instruction or Fine or Performing Arts field experience within the school district or community 3. 150 hours of group instruction within the school district or community 4. Selection into one or more of the following: OMEA All State Band, Governor's Art Show or other district approved option 5. Completion of an arts portfolio component under the guidance of a certified teacher/mentor


Student Engagement Seal Locally Defined
	Participation in two or more of the following:
	• District sponsored sport and/or marching band
	  ◦ One full season
	• Play/Musical/Drama Production
	  ◦ Excludes Theatre III course enrollment
	  ◦ One full production
	• Active participation in an approved district sponsored club
	  ◦ One full year
	*Students can participate in the same production, club, etc. for 2 or more years to meet this requirement.

ACADEMIC DISTINCTIONS

Valedictorian

- All students who achieve a grade point average of 4.100 and above after the 7th semester will receive the distinction of valedictorian status at commencement.

Magna Cum Laude, Summa Cum Laude, Cum Laude

- Students will be honored at commencement based on the following cumulative GPA scale:
  - Summa Cum Laude: 4.000 GPA and above
  - Magna Cum Laude: 3.750 to 3.999
  - Cum Laude: 3.500 to 3.740
- Students will be credentialed for this academic award after the 7th semester.

International Baccalaureate Diploma

- The International Baccalaureate Organization awards students the IB Diploma upon successful completion of the 6 subjects studied and their culminating assessments, as well as, the successful completion of the IB core (Theory of Knowledge, Creativity Activity Service, and an Extended Essay).

President's Education Award for Educational Excellence

- The President's Education Award for Educational Excellence is awarded to graduating seniors who meet the following criteria:
  - Cumulative GPA of 3.500 and above on a 4.000 grading scale
  - 26 ACT composite score or 1210 SAT combined critical reading and math score
- Students will be credentialed for this award after the 7th semester

DIPLOMA WITH HONORS

Diploma with Honors

Diploma with Honors requirements pre-suppose the completion of all high school diploma requirements in the Ohio Revised Code including: 4 units of English Language Arts, ½ unit Physical Education, ½ unit Health, ½ unit of Financial Literacy, ½ unit American History, and ½ unit American Government. The chart below includes only the criteria required to earn each individual honors diploma. In addition to the requirements below, students must meet all district graduation requirements.

***The International Baccalaureate Diploma Program** alone does not meet the requirements of the Honors Diploma. Students must complete all requirements of the IB Diploma Program in addition to the requirements below.

For additional information about Honors Diploma requirements and graduation requirements, visit the district website.

Comparison of Diplomas with Honors Criteria

-Students need to fulfill all but one of the applicable criteria for the Diploma with Honors
-Student can replace one of the following requirements with a Student Strength Demonstration: World Language, GPA, ACT/SAT

Requirement	Academic Diploma with Honors	International Baccalaureate Diploma with Honors*	Career-Technical Diploma with Honors	STEM Diploma with Honors	Arts Diploma with Honors	Social Science and Civic Engagement Diploma with Honors
Math	4 units	4 units	4 units	4 units	Not Applicable^^	4 units
Science	4 units, 2 units of advanced science	4 units, 2 units of advanced science	Not Applicable^^	4 units, 2 units of advanced science	Not Applicable^^	Not Applicable^^
Social Studies	4 units	4 units	Not Applicable^^	Not Applicable^^	Not Applicable^^	5 units
World Languages	3 units or 2 units of two languages	3 units or 2 units of two languages	2 units of one world language	3 units or 2 units of two languages	3 units or 2 units of two languages	3 units or 2 units of two languages
GPA	3.5 on a 4.0 scale (unweighted)	3.5 on a 4.0 scale (unweighted)	3.5 on a 4.0 scale (unweighted)	3.5 on a 4.0 scale (unweighted)	3.5 on a 4.0 scale (unweighted)	3.5 on a 4.0 scale (unweighted)
ACT/SAT	27 ACT or 1280 SAT	27 ACT or 1280 SAT	27 ACT, 1280 SAT, or earn a score of 6 or higher on all sections of the WorkKeys	27 ACT or 1280 SAT	27 ACT or 1280 SAT	27 ACT or 1280 SAT
Seal Requirement	Earn 2 additional diploma seals, not including Honors Diploma Seal	Meet requirements to earn the Seal of Biliteracy	Meet requirements to earn the Industry-Recognized Credential Seal or Technology Seal	Meet requirements to earn the Industry-Recognized Credential Seal or Technology Seal	Meet local district requirements to earn the Fine Arts Seal	Meet the requirements to earn the Citizenship Seal

DIPLOMA WITH HONORS

Experiential Learning	Field Experience & Portfolio, OMJ Seal^, or Work-Based Learning	Field Experience & Portfolio, OMJ Seal, or Work-Based Learning	Field Experience & Portfolio, OMJ Seal, or Work-Based Learning	Field Experience & Portfolio, OMJ Seal, or Work-Based Learning	Field Experience & Portfolio, OMJ Seal, or Work-Based Learning	Not Applicable^^
Career- Tech Proficiency	Not Applicable^^	Not Applicable^^	Earn a cumulative score of proficient or higher on the technical assessments aligned to their program	Not Applicable^^	Not Applicable^^	Not Applicable^^
Fine Arts	Not Applicable^^	Not Applicable^^	Not Applicable^^	Not Applicable^^	4 units	Not Applicable^^
Other	Not Applicable^^	Not Applicable^^	4 units of Career-Tech courses	Not Applicable^^	2 units of Fine Arts	Earn the Community Service Seal

^Students can use the OhioMeansJobs Readiness Seal in the 2 additional seals requirement if it is not used in the Experiential Learning requirement.

^^The chart above includes only the criteria required to earn each individual honors diploma. In addition to the requirements below, students must meet all district graduation requirements.

Student Strength Demonstration Replacement

Students can replace *one* of the following requirements with a Student Strength Demonstration: World Language, GPA, ACT/SAT. These options exist for each of the six honors diplomas but, where relevant, should reflect coursework or experiences relevant to the theme of the Honors Diploma.

College Credit Plus	12 total College Credit Plus credit hours
Advanced Placement	Three courses with score of 3 or higher on AP tests
Career-Technical Assurance Guide (CTAG)	12 total credits
Apprenticeship/ Pre-Apprenticeship	Completion or Evidence of Acceptance if required to be older than 18
WorkKeys	Score of 6 or higher on all tests *Void for career-tech honors diploma
Armed Services Vocational Battery (ASVAB)	Score of 50 or above on the ASVAB
Work-Based Learning	250 total hours of work-based learning

ATHLETIC ELIGIBILITY

OHIO HIGH SCHOOL ATHLETIC ASSOCIATION ELIGIBILITY

Grades 9 - 12

- To be eligible, a student must be currently enrolled in school and must have received passing grades in a minimum of **5 one-credit courses or the equivalent and maintain a 2.0 grade point average** in the immediately preceding grading period.

- For eligibility purposes, **summer school grades may not be used** to substitute for failing grades received during the final grading period of the regular school year or for lack of enough subjects taken in the preceding grading period.

- Knowing and following **all OHSAA standards** will enable students to protect their athletic eligibility. It is also important for students to know that they must meet all the standards to be eligible. For additional information refer to **www.ohsaa.org**.

- **Do not change a course schedule or drop a course without first consulting with a school counselor or athletic administrator to determine whether it will affect eligibility.**

- Eligibility for each grading period is determined by grades received in the preceding grading period. **Semester and yearly grades do not effect eligibility. To be eligible as a ninth grader, a student must be currently enrolled in school and must have received passing grades in five subjects in the immediately preceding grading period.**

Semesters of Eligibility

- When a student enrolls in grade 9 for the first time, he/she has 8 semesters of athletic eligibility taken in order of attendance whether he/she participates or does not participate.

NCAA College Freshman Eligibility Requirements

- If students are planning to enroll in college and wish to participate in Division I or Division II sports, they must be certified by the NCAA Initial-Eligibility Center. There are several steps in this process. Students should initiate the process early in their sophomore year. For more detailed information and the application materials, contact the Guidance Office or refer to: **https://web3.ncaa.org/ecwr3/**

SCHEDULE CHANGES

Schedule Changes

- Once a student, teacher, and/or parent recognizes that the level of difficulty of a class is not accurate for that student, a level change up or down should occur immediately.

Level Change Down

- A level change down in a course is defined as moving from a specific AP or IB course to the corresponding honors course; or from a specific honors course to the corresponding conventional course. Not all courses have a level down change option.
- No level change down is permitted after October 16th in the 1st semester and after March 13th in the 2nd semester. Any level change down will transfer all previously earned grades, including the associated weight (i.e. 84% in an honors course = 89% in a conventional course; 84% in an AP/IB course = 94% in a conventional course).

Level Change Up

- A level change-up in a course is defined as moving from a specific conventional course to the corresponding honors, AP or IB course; or from a specific honors course to the corresponding AP or IB course.
- No level change-up is permitted after the first two weeks of each semester.

DATES FOR ADDING AND DROPPING DCS CLASSES
***NOTE: These dates to do not apply to CCP courses.**

SEMESTER	ADD	DROP
1st Semester	**August 21, 2025**	**August 19, 2025 – October 29, 2025** Notation of the course will be expunged from the transcript **October 30, 2025 – December 19, 2025** Withdraw/Fail (WF) will be awarded on transcript Calculated as a failure in the student's GPA
2nd Semester	**January 8, 2026**	**January 8, 2026 – March 27, 2026** Notation of the course will be expunged from the transcript **March 28, 2026 – May 29, 2025** Withdraw/Fail (WF) will be awarded on transcript Calculated as a failure in the student's GPA

IMPORTANT CONSIDERATIONS:

- Dropping a course may endanger your grade placement or graduation status. Review the Graduation Requirements listed in the Academic Programs and Pathways.
- Dropping a course may endanger your athletic eligibility. During the nine-week grading period preceding athletic participation, the student must be passing five (5) equivalencies as defined by the Ohio High School Athletic Association. Parents and students are responsible for monitoring the necessary athletic eligibility requirements. If you have any questions, contact the athletic office or coach for clarification.

***CCP CONSIDERATIONS:**

Add/drop dates for College Credit Plus courses are based on the academic calendar of **the applicable college/university**.

- If a student drops a CCP course after the first 10 days of the college/university academic calendar:
  - The student's family is responsible for tuition, fees, and textbooks.
  - Students are not guaranteed a seat in a DCS course until a new semester begins.
  - Students should notify counselor immediately to discuss impact on graduation requirements.

EDUCATIONAL OPTIONS

The Dublin Board of Education recognizes the need to provide alternate means by which students achieve goals of the district through various educational options. Educational Options available to students include, but are not limited to the following:

College Credit Plus

College Credit Plus (CCP) is a program for students in grades 7-12 to be enrolled in both district and college/university coursework at the same time; tuition, textbooks and other associated fees are covered by Dublin City Schools. Students must meet eligibility criteria and complete necessary application requirements per ORC 3365, including a yearly intent to participate due by April 1st and mandatory student/guardian meeting each winter. Students may take CCP courses offered at Emerald Campus or through a participating Ohio institution, such as Columbus State Community College and The Ohio State University. Click here to learn more about CCP at Emerald Campus.

Credit Flexibility

DCS Credit Flexibility offers a variety of learning opportunities for students with a focus on performance, acknowledging students' differing learning styles, paces, and interests, and enables students to demonstrate creativity, explore academic and career interests, and practice critical thinking. Students may earn credits by completing coursework (including through accredited online providers), testing out by showing course mastery, and/or pursuing other options in alignment with the district Credit Flexibility plan. Students interested in this option should see the Educational Options section of the district website, which outlines deadlines (May 1 and December 1) and forms for pre-approval.

Early Graduation

Dublin City Schools has a policy for students wishing to graduate early from high school. Students considering early graduation should discuss this option with their school counselor. Applications for early graduation will be submitted to the student's school counselor and the high school principal in accordance with policy. Early graduation requests will only be considered if all conditions for graduation are met. With the permission of the building principal, the student may participate in the graduation ceremonies with his/her designated class. Students should notify their building of intent to graduate early by May 1 of the student's junior year.

Grade Replacement

Students are permitted to retake any Dublin course as replacement credit to increase their knowledge base and grade; however, students cannot earn credit twice for the same course unless otherwise noted in the course description as repeatable. Replacement credit is only earned through taking a course in Dublin City Schools to replace its equivalent course. Both grades that a student earns in a replaced course remain on the transcript however, the lower grade is not calculated in the student's GPA and the credit is removed. Students can obtain a grade replacement form from their school counselor.

Credit Recovery

If a student has completed but not passed a course, the student may recover the credit through summer school credit recovery or by repeating the course during the school year.