

Photo by: Oliviah Dionne WHS Class of 2028

2026 - 2027



Freshman Course Catalog

Presented by: Director of High School
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The Why?

- ED 306 (State Minimum Standards for Education) new Graduation Requirements
- A tighter focus on messaging to 8th graders and a “One Manchester” vision



MANCHESTER
SCHOOL DISTRICT

Freshman Catalog

Old ED306 MINIMUM 2009		New ED 306 MINIMUM 2024	
Arts Education	.5	Arts Education	.5
Digital Literacy	.5	Digital Literacy	.5
English	4	English	3
		*To include credit in writing	.5
Math	3, including Algebra credit	Math	2.5, Includes "Algebraic Concepts"
		*To include statistics or data analysis	.5
Physical Sciences	1	Physical Sciences	1
Biological Sciences	1	Biological Sciences	1
US & NH History	1	US History	.5
		NH History	.5
US & NH Gov/Civics	.5	Civics	.5
		History, Gov't and Constitution of US and NH	1
Economics, including Personal Finance	.5	Economics	.5
		Financial Literacy	.5
World History, Global Studies, or Geography	.5	World History, Global Studies, or Geography	1
Health Education	.5	Health and Wellness Education	.5
Physical Education	1	Physical Education	1
Open Electives	6	Open Electives, with options for Career Connected Learning	4
		Logic and Rhetoric	.5
Total	20 Credits		

What is New?



01 Logic and Rhetoric

02 US and NH Gov't and History

03 Embedded Statistics

04 School to Career Readiness

05 Graduation Requirements

Freshman Catalog

Graduation Requirement

9 - Freshman	10 - Sophomore	11 - Junior	12 - Senior	Graduation Requirements
Genres of Literature (1) For Multilingual Learners: ELD-Newcomer or ELD-9*	World Literature (1) For Multilingual Learners: ELD-Newcomer or ELD-10*	American Literature (1) For Multilingual Learners: ELD-Newcomer or ELD-11*	English Elective (1) For Multilingual Learners: ELD-12*	4
Algebra or equivalent (1)	Geometry (1)	Math Elective (1)	Math elective or Statistics	3.5
0.5 Statistics competency available for completed Math sequence				
Physical Science (1)	Biology (1)	Science Elective (1)		3
US & NH Civics and Gov't (1.5)	World History (1)	US History (1) or American Studies History (1)	Economics (.5)	4
Physical Education (.5)	Physical Education (.5)			1
School to Career Readiness (0.5)	Health (.5)	Financial Lit. (.5)		1.5
Arts**(.5)				.5
Logic and Rhetoric & Digital Literacy Embedded Credit (.5) each				1
Electives (1-2)	Electives (1-2)	Electives (1-2)	Electives (1-2)	6.0
<p>*For Multilingual Learners, two (2) of the four (4) English credits needed for graduation can be earned through successful completion of a grade-level English Language Development (ELD) class (ELD-9, ELD-10, ELD-11 or ELD-12). ELD-Newcomer will count as elective credit only.</p> <p>**Art credit can be satisfied by successfully completing an Art or Music course (see counselor for details).</p>				TOTAL 24.5

24.5 Credits represent the increase in credits needed to graduate based on the new ED 306 requirements.



Freshman Catalog



MANCHESTER SCHOOL DISTRICT

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VISION AND MISSION

Through equitable access to high-quality academic, social, and applied learning, students are provided a transformational learning experience that ensures that every Manchester School District learner has high quality postsecondary options to attain a technical certificate, gainful employment, and/or a two-year or four-year degree.

AUDIENCE

This course catalog is designed for students in the class of 2030

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Letter from Dr. Chmiel forthcoming



26-27 DRAFT

OUR SCHOOLS

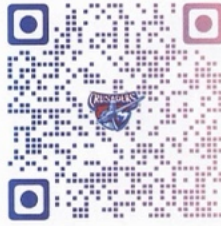
The Manchester School District is the oldest and largest school district in the state of New Hampshire. It is home to our four high schools; Manchester High School Central, Manchester Memorial High School, Manchester School of Technology High School, and Manchester High School West. Central, Memorial, and West excel at offering traditional learning environments for students, while Manchester School of Technology houses our growing competency-based high school and our career and technical education program. Our student population is reflective of our community and we continue to focus on achieving equitable learning outcomes for all students. Each High School offers many extracurricular activities, clubs, and opportunities that reflect our community. Please visit each High School's website for more information.

Manchester Central - <https://central.mansd.org/o/central>

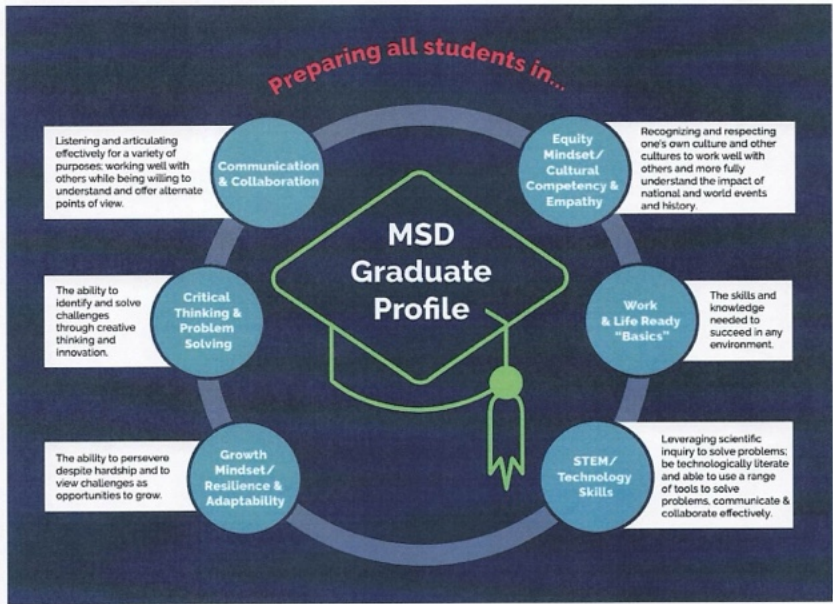
Manchester Memorial - <https://memorial.mansd.org/o/memorial>

Manchester School of Technology - <https://mst.mansd.org/o/mst>

Manchester West - <https://west.mansd.org/o/west>



The Manchester School District is committed to offering equitable access to essential learning standards to all students. This course catalog provides the necessary classes and educational opportunities to attain skills that will serve the graduate in life and career. The image below illustrates the attributes of a Manchester School District Graduate.



Diploma Types:

Core Diploma	This is a 20-credit diploma that meets the State of New Hampshire minimum graduation requirements. Students seeking this diploma must have parent approval and complete an application in the junior year. Some course pathways only meet the state minimum graduation requirements.
Manchester High School Diploma	This diploma meets the graduation requirements set by the Manchester Board of School committees and these requirements exceed the minimum standards set by the State of New Hampshire. This sequence of coursework prepares students for a variety of postsecondary options and career pathways.
Diploma with Distinction	A diploma with distinction may be earned if a student has completed a minimum of four consecutive semesters, and earned a minimum unweighted GPA of 3.0 and more than 29.5 credits. Students are encouraged to participate in rigorous and relevant courses that fulfill their academic plan for future preparedness. Specific scheduling needs can cause changes in the suggested plan below.

School Counseling

School counselors support each and every student’s growth in three domains: academic, career, and personal/social development. Counselors are integral in future preparedness, whether it be college, career, or military aspirations. The counseling department at each high school provides support in scheduling choices based on students’ future goals. Counselors provide direct service to students, indirect services through collaboration with families and the community, and responsive services as individual needs arise.

Special Education

The Special Education Department within Student Services assists with the development and implementation of Individualized Education Programs (IEPs). The department ensures that all students with disabilities who require specialized instruction receive a free, appropriate public education (FAPE).

Section 504

Students with an impairment that significantly impacts a major life activity may be eligible for accommodations through a 504 plan. Eligibility is determined in a referral process that starts with the school counselor and includes a team meeting with adults who know the student well.

Student Assistance Program (SAP)

The Student Assistance Program (SAP) is a resource for all students facing academic, personal, or mental health challenges, including substance misuse. SAP counselors work with students individually and in groups to develop coping strategies and to connect them with resources inside and outside of school. SAP counselors also provide educational opportunities for all students related to mental health, personal safety, and positive decision-making.

School Social Work

School social workers address social, emotional and behavior issues that impact educational success and work with students and families to connect to community resources. They provide individual counseling, crisis intervention and support students who have been displaced and/or are in transitional living arrangements.

The 2026-2027 High School School Freshman Course Catalog is a resource for use in the course selection process for the Manchester High School class of 2030. The courses in this catalog represent what courses are available to incoming Freshmen. Students may view the full course catalog on our website, for future planning purposes. Teachers and school counselors are also resources for determining which opportunities align with a student's abilities, interests, and goals. Students are encouraged to participate in rigorous and relevant courses that fulfill their academic plan for future preparedness.

Graduation Requirements and Suggested Course Progression

Students who graduate from the Manchester School District will earn a minimum of ***twenty four and a half (24.5) credits***.

9 - Freshman	10 - Sophomore	11 - Junior	12 - Senior	Graduation Requirements
Genres of Literature (1) For Multilingual Learners: ELD-Newcomer or ELD-9*	World Literature (1) For Multilingual Learners: ELD-Newcomer or ELD-10*	American Literature (1) For Multilingual Learners: ELD-Newcomer or ELD-11*	English Elective (1) For Multilingual Learners: ELD-12*	4
Algebra or equivalent (1)	Geometry (1)	Math Elective (1)	Math elective or Statistics	3.5
(.5) Statistics competency available for completed Math sequence				
Physical Science (1)	Biology (1)	Science Elective (1)		3
US & NH Civics and Gov't (1.5)	World History (1)	US History (1) or American Studies History (1)	Economics (.5)	4
Physical Education (.5)	Physical Education (.5)			1
School to Career Readiness (0.5)	Health (.5)	Financial Lit. (.5)		1.5
Arts**(,5)				.5
Logic and Rhetoric & Digital Literacy Embedded Credit (.5) each				1
Electives (1-2)	Electives (1-2)	Electives (1-2)	Electives (1-2)	6.0
*For Multilingual Learners, two (2) of the four (4) English credits needed for graduation can be earned through successful completion of a grade-level English Language Development (ELD) class (ELD-9, ELD-10, ELD-11 or ELD-12). ELD-Newcomer will count as elective credit only. **Art credit can be satisfied by successfully completing an Art or Music course (see counselor for details).				TOTAL 24.5

PATHWAYS OF STUDY

The Manchester School District Pathways of Study, allow students to discover academic opportunities that align their education with real-world opportunities, gaining the specific knowledge and skills valued by employers and higher education institutions.

Within each Pathway, students are provided with a structured, yet flexible, plan of study to access courses specifically aligned with industry needs, as identified by field professionals and educators. Beyond the classroom, students engage with local businesses and mentors, gaining real-world insights into their chosen career fields while learning about regional employment trends and training requirements. The program enriches student experiences through hands-on learning opportunities while providing paths to earn college credits, industry certifications, and licenses before graduation. The following career clusters help guide students to pathways that align with their interests, passions, and strengths.

- | | |
|---|--|
| • Agriculture, Food & Natural Resources | • Hospitality & Tourism |
| • Architecture & Construction | • Human Services |
| • Arts, Digital Technology & Communications | • Information Technology |
| • Business, Management & Administration | • Law, Public Safety, Corrections & Security |
| • Education & Training | • Manufacturing |
| • Financial Services | • Marketing, Sales & Service |
| • Government & Public Administration | • Science, Technology, Engineering & Math |
| • Health Science | • Transportation, Distribution & Logistics |

Get started on finding your Pathway

- Visit our Pathway Website: <https://www.mansd.org/page/career-and-college-pathways>
- Log into Xello (via Clever) and explore your interests, passions, and strengths.
- Discuss your plans for the future with your family and/or trusted adult, and school counselor.
- Use pathway of plan of study documents to help you map out courses for your time in high school.

Grading Explanation and Course Designations

Traditional Letter Grade Scale	Traditional Numerical Grade Scale	Simple GPA	General Weighted GPA	Honors, College, and AP Weighted GPA
A	90 - 100%	4.0	10	12
B+	85 - 89%	3.5	8.75	10.5
B	80 - 84%	3.0	7.5	9
C+	75 - 79%	2.5	6.25	7.5
C	70 - 74%	2.0	5.0	6.0
D	65 - 69%	1.0	2.5	3
F	0 - 64%	0.0	0.0	0.0

General	General courses are designated with a "G" at the end of the course number and are designed to offer both academic preparations for colleges and universities and other post-secondary institutions, industry, and the military.
Honors	Honors courses are designated with an "H" at the end of each course number and are designed to provide scholastic challenges to students who have demonstrated self-motivation and desire to progress at an academically rigorous pace. Honors courses prepare students for admission to colleges and universities as well as other rigorous post-secondary opportunities.
College	College courses are designated with a "C" at the end of each course number and are designed to lead to college credit while a student is enrolled in high school and follow progressions approved by either Southern New Hampshire University, or the New Hampshire College and University System. Students must meet expectations set forth by one of these schools to earn college credit for the course.
AP	AP courses are designated with an "A" at the end of each course number. Courses follow curriculum designed by College Board and are designed to lead to a student's success on the AP exam. Students enrolled in AP courses are expected to take the culminating AP exam
No Credit Des.	Courses designated with an "N" have no bearing on student-weighted GPA.

All Freshman should be enrolled in a minimum of six periods/seven blocks.

Please see the Student Handbook, located on your school's website, for more on the Grading Procedure.

The New Hampshire Scholars initiative is an effort to encourage and motivate all high school students to complete a defined, rigorous academic course of study that prepares them for successful transition to college or to enter into the competitive job market. Please see your school counselor for details or visit <https://nhscholars.org/>.

To be recognized as a New Hampshire Scholar, Manchester School District students must meet the minimum following criteria:

Core Course Requirements

Core Subject Area	Credits
English	4
Lab Science**	3
Mathematics*	4
Social Science	3.5
World Language	2

*Algebra I, Algebra II, Geometry, plus one other

**Lab Sciences includes Biology, Chemistry, Physics, Biotechnology, Anatomy and Physiology, etc. (Physical Science is not included.)

In addition to core requirements, students may also receive recognition in the following pathway areas.

Arts Pathway: Two (2) or more additional credits in any of the following Visual/Fine Arts, Performing Arts, Music, or Graphic Design. A minimum 3.2 GPA is required.

STEM Pathway: One (1) or more additional credits in any of the following Technology, Engineering, Computers, Advanced Manufacturing, Science, Math, or CTE. A minimum 3.2 GPA is required.

STEAM Pathway: One (1) or more additional credits in STEM and Two (2) or more additional years in Art. A minimum 3.2 GPA is required.

Career Pathway: One (1) year of a CTE program, One (1) work-based learning experience and earned college experience, and One (1) industry recognized certificate. World Language is not required.

NEW HAMPSHIRE SEAL OF BILITERACY

The New Hampshire Seal of Biliteracy Award is a district, state, and national program to recognize students who have attained proficiency in two or more languages by high school graduation. This award acknowledges the achievements of multilingual students with an official diploma seal, an honors cord to wear at graduation, and an award certificate. A notation is also made on the student's official transcript as a distinction to future employers or institutions of higher education. The award is open to all students. The award is available at two levels of distinction: Silver and Gold.

Silver Level Requirements: (Intermediate-Mid Proficiency)

- World Language Requirement: (one of the following):
 - 3 on AP exam
 - STAMP test = 5 composite (no individual score lower than a three and this is only allowed on one domain)
 - AAPPL test = I4 composite (no individual score lower than a three and this is only allowed on one domain)
- English Requirement: (one of the following):
 - SAT (450+) on ELA
 - AP English Lit (3)
 - AP English Lang (3)
 - Transcript documenting at least 3.5 years of English courses with a grade point average of a B (3.0 out of 4.0 scale) or higher.
 - For English Learners:
 - STAMP Test - 5 composite (no individual score lower than a three and this is only allowed on one domain)
 - AAPPL Test - I4 composite (no individual score lower than a three and this is only allowed on one domain)

Gold Award Distinction: (Intermediate-High Proficiency)

World Language: (one of the following):

- 4 or 5 on AP exam
- STAMP test - 6 composite (no individual score lower than a four and this is only allowed in one domain.)
- AAPPL test - I5 composite (no individual score lower than a four and this is only allowed in one domain.)

English Requirements: (one of the following):

- AT (480+) on ELA h, AP English Lit (4+)
- AP English Lang (4+)
- Transcript documenting at least 3.5 years of English courses with a grade point average of a B+ (3.5 out of 4.0 scale) or higher.
- English Learners:
 - ACCESS Composite Score \geq 4.5

For more information please visit:

New Hampshire State Seal of Biliteracy website:

<https://www.education.nh.gov/who-we-are/commissioner/new-hampshire-seal-biliteracy>

MSD Seal of Biliteracy webpage: <https://www.mansd.org/page/nh-seal-of-biliteracy>

SCHOOL TO CAREER READINESS

School to Career Readiness

Course FP045G, One Credit, Full Year

This course is required for all Freshman. This course is designed to help students explore a variety of school and career paths and understand the skills required for success. The course focuses on developing essential professional skills such as goal setting, communication, problem-solving, time management, and digital literacy. Students will be prepared for success in post-secondary education or the workforce by combining academic rigor with practical, career-focused knowledge. This course also lays the foundation for lifelong learning and effective life skill management, equipping students to confidently navigate their future education and career journeys. *Successful completion of this course will earn students their Digital Literacy required credit.*

ART

The courses below make up the introductory art courses of study in the Manchester High Schools. The goals of the courses are to instill an understanding and appreciation for visual art. Students learn how to find, view, discuss, create, and criticize art. Students who wish to pursue advanced study in art should seek input from Art Department faculty.

Introduction to Art 1

Course AR001G, Half Credit, One Semester

This course deals with the elements of art and techniques of drawing with a concentration on line, shape, form, and texture. Students work in various media conventionally and imaginatively. Perspective and drawing from observation will be covered. Art history is included in the curriculum throughout the course. Taking both Introduction to Art 1 and 2 is equivalent to Fundamentals of Art.

Introduction to Art 2

Course AR002G, Half Credit, One Semester

This course involves an in-depth study of the elements of art and design. Students will learn concepts of drawing, perspective, color theory, and painting techniques. Additional experimentation with a variety of media, including two-dimensional and three-dimensional forms, will be included as time permits. Art history is included in the curriculum throughout the course. Students who have taken Introduction to Art 1 and 2 are not eligible for Fundamentals of Art. Taking both Introduction to Art 1 and 2 is equivalent to Fundamentals of Art.

Fundamentals of Art*Course AR003G/AR004G, One Credit, Full Year*

This course involves an in-depth study of the elements of art and design. Students learn concepts of drawing, perspective, color theory, and painting techniques. Additional studies in various media, including two-dimensional and three-dimensional forms, are included as time permits. Art history is included in the curriculum throughout the year. This course provides the technical background for all advanced art classes in the department. Fundamentals of Art is the equivalent of Introduction to Art 1 and 2.

Art for Civic Engagement*Course AR005G, Half Credit, One Semester*

Prerequisite: Successful completion of Middle School Advanced Art. Art has often been a catalyst for social change. Throughout this course, students learn about global artists who have used their work in this manner within their communities to create civic engagement. Students should be prepared to work in any medium for change and be willing to research an area of interest during the semester and create work based on their research. This work will be displayed in a public community space during a final exhibition.

Collaborative Community Arts*Course AR007G, Half Credit, One Semester*

Prerequisite: Successful completion of Middle School Advanced Art. This class is an opportunity to change the school's climate by creatively thinking about what our students need and striving to make a welcoming space that represents all learners. This class is a major part of our community as it requires active participation outside the classroom and in the surrounding spaces fostering a positive collaborative environment. Students will primarily work with large to small mural designs and the paint medium.

Global Arts and History*Course AR009G, Half Credit, One Semester*

Prerequisite: Successful completion of Middle School Advanced Art. This course focuses on studying world cultures through the artistry and crafts these cultures produce. Students have the opportunity to cultivate an appreciation for the visual arts and historical traditions of world cultures through hands-on experience.

Digital Photography*Course AR011G, Half Credit, One Semester*

Prerequisite: Successful completion of Middle School Advanced Art. This class is a photography option that allows the student to explore digital photography. Students are given various assignments, including subjects to study and visual challenges to solve using techniques, applications, and processes in this digital age. Students experiment with composition, color, and editing skills during assignments.

Photography 1*Course AR013G/AR014G, One Credit, Full-Year*

Prerequisite: Successful completion of Middle School Advanced Art. This course is designed for students who wish to learn basic, intermediate, and advanced photography. Students explore a variety of tools, techniques, and skills including film, studio, and darkroom photography. Students explore individual styles while producing a thematic portfolio of photographs. Students are not required to purchase a camera for this class. This course may have a digital photography component available. College credit (*Central and Memorial*) may be earned where available upon successful completion of this course.

Drawing 1*Course AR017G/AR018G, One Credit, Full Year*

Prerequisite: Successful completion of Middle School Advanced Art. This advanced drawing course is designed for students interested in developing their technical skills in drawing. Observational and creativity-based projects will be included in the student's portfolio development. Students should expect an emphasis on developing their technical and observational skills, as well as being introduced to illustration and other creativity-based projects. Students are given ample opportunities to develop their style while learning skills with various drawing media. College credit may be earned where available upon successful completion of this course.

Introduction to Illustration*Course AR023G, Half Credit, One Semester*

Prerequisite: Successful completion of Middle School Advanced Art. This course provides students with an introduction to illustration. Students use a variety of media to create a variety of forms expressing their ideas visually. Students create art projects and advanced research topics that analyze and depict an understanding of the styles and techniques used by advanced illustrators. Students access advanced art materials such as colored pencils, watercolors, pens and ink, acrylics, and other supplies.

Painting 1*Course AR025G/AR026G, One Credit, Full Year*

Prerequisite: Successful completion of Middle School Advanced Art. Painting involves exploring various painting media, including watercolor, gouache, and acrylic. Techniques such as blending, overpainting, texturing, and layering will be stressed. Students work independently using figurative, landscape, objective, and nonobjective motifs, developing their creative expression through various painting media and styles. Abstraction and realism are studied in conjunction with the great masters.

Pottery 1*Course AR031G, Half Credit, One Semester*

Prerequisite: Successful completion of Middle School Advanced Art. This course introduces students to the various hand-building techniques while creating decorative and functional pottery. Students incorporate the principles of design and are introduced to the science of glaze chemistry as they are exposed to the history and the numerous processes for pottery creation.

Sculpture 1*Course AR037G, Half Credit, One Semester*

Prerequisite: Successful completion of Middle School Advanced Art. This course allows students to explore various materials while understanding the processes used to create three-dimensional forms. Past and present sculptors are introduced and studied. Creativity, originality, and problem-solving skills will be stressed throughout the artistic process.

Computer Graphics 1*Course AR041G/AR042G, One Credit, Full Year*

Prerequisite: Successful completion of Middle School Advanced Art. Computer Graphics 1 (Graphic Design) explores the application of design principles and creative visual problem-solving using industry-standard applications such as Adobe Illustrator, InDesign, and Photoshop. With an emphasis on understanding and applying appropriate design methodologies, students develop print collateral and media-based imagery using their creative concepts and designs. Computer Graphics 1 allows students to gain a technical foundation for effective visual design solutions while fulfilling the computer literacy requirement for graduation.

BUSINESS

Functional areas of business are covered in the course offerings in the Business Department. Opportunities to experience and explore different facets of the world of business are provided. Students with a special interest in pursuing a career in one of the many business pathways after high school will be well-prepared with rigorous, current studies and application.

Introduction to Business*Course BU001G/BU002G, One Credit, Full Year*

This course of study in business is an excellent choice for students considering a business discipline in college or direct entry into the workforce. Students are introduced to the study of the economy, owning and operating a business, marketing, management, career planning, banking, credit, and personal finance. Students complete research-based projects and business simulations.

Principles of Management (G/C)*Course BU011G/BU012G, One Credit, Full Year*

This course provides a basic framework for understanding the roles and functions of a manager and the principles, concepts, and techniques that can be used in carrying out these functions. Specific topics include planning, decision-making, organizing, leading, controlling, and innovating. Students have the option to participate in Distributive Education Clubs of America (DECA) and may have a role in the operation of the school store.

Accounting*Course BU013G/BU014G, One Credit, Full Year*

Students acquire critical skills in Accounting fundamentals needed for their future personal finance and working in or owning a business. Students learn concepts and usage of assets, liabilities, equity, revenue, and expense accounts along with procedures to journalize and post daily transactions, prepare financial statements, and close a ledger at the end of the fiscal period. Class activities, simulations, and case studies further reinforce concepts and critical thinking skills.

English

The English Departments of the Manchester High Schools offer a program designed to prepare students for success beyond high school. Through four years of study, we seek to instill in each student an appreciation of the English Language Arts with a program of core and elective courses, based on the Manchester Academic Standards and Competencies which are built on Pre-AP standards.

Genres of Literature and Composition*Course EN001G/EN002G, One Credit, Full Year*

This course introduces students to classic and modern literature through a variety of genres, including but not limited to, fiction, non-fiction, drama, and poetry. Students produce written work including critical, analytical, creative, reflective, and expository writing. Students use the research process to investigate, outline, and write a research paper.

Genres of Literature and Composition (H)*Course EN001H/EN002H, One Credit, Full Year*

This advanced course is designed for students who are interested in an in-depth analysis of literature which will require both collaborative and independent work. The course introduces classic and modern literature through a variety of genres and cultures. Students will develop close reading skills through the exploration of fiction, non-fiction, drama, and poetry. Students produce written work in the form of critical, analytical, creative, reflective, and expository writing, focusing on developing their voice as a writer. Students use the research process to investigate, outline, and write a research paper.

FAMILY AND CONSUMER SCIENCES

Family and Consumer Sciences focus on the study of the science and art of living. Experience and research allow students to develop skills to be active participants in their community, help build strong families, and be prepared for college and career. All Family and Consumer Science courses are awarded as elective credit.

Baking

Course FP005G, Half Credit, One Semester

Students develop skills in basic bread and pastry techniques to produce breads, muffins, biscuits, pies, cakes, pastries, and specialized desserts. The students apply knowledge and skills of how basic ingredients function, learn baking and pastry vocabulary, and develop skills needed to produce baking and pastry products based on industry standards. Special focus is on attention to detail and artistic flair, which are the cornerstone skills used in creative baking.

Adult Roles

Course FP003G, Half Credit, One Semester

This is a fun and fast-paced senior elective that focuses on practical skills for students eager to navigate life after graduation. Students play an active role in determining the topics and skills we will pursue. Students work collaboratively as a class, in smaller groups, and with partners, as well as having an independent study topic. They use a variety of communication tools to interact with peers, and connect with community resources from outside of the school. Throughout the semester, students need to be open to; learning new skills, improving their digital proficiency, and practicing creative problem-solving. Topics of focus include financial literacy, budgeting, career exploration, and the variety of options for continued learning after graduation.

Foods

Course FP007G, Half Credit, One Semester

Students use hands-on applications as well as academic skills, to analyze real-life experiences in the kitchen. Students work in teams to successfully demonstrate the ability to read a recipe. Students are introduced to the fundamental skills and laboratory practices of food preparation. Students will demonstrate cooking techniques as well as learn about nutrition, budgeting, and quality food preparation. The formation of good work practices and safety habits is an essential feature of this course.

Foods 2

Course FP009G, Half Credit, One Semester

Prerequisite: Successful completion of Foods 1 or Baking. This course is designed for students interested in a more in-depth study of nutrition and food preparation techniques. Through a collaborative effort of research and practice, students expand their knowledge of nutrition and food preparation techniques learned in Foods 1. Units are based on Essential Food Groups and include advanced preparation techniques and food presentation. Students learn to plan, purchase, and prepare meals for a lifetime of healthy eating.

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Interior Design*Course FP011G, Half Credit, One Semester*

Students learn to make appropriate selections of paint, fabrics, furnishings, lighting, and accessories based on sound financial decisions and design principles. Drawing in perspective, creating floor plans, color schemes, and rendering interiors in color and textures are some of the skills students will develop. Students are exposed to various career opportunities in interior design. Students are required to provide some materials and supplies.

Math

Mathematical literacy is necessary for success in the 21st century. Each of the mathematics courses focuses on quantitative and abstract reasoning, communication, modeling, and making connections. Curriculum is aligned to the Manchester Academic Standards and Competencies. Students must earn three and a half credits from the courses below, including the equivalent of Algebra 1, and must be enrolled in a fourth course where math is embedded.

Math 1*Course MA001G/MA002G, One Credit, Full Year*

Prerequisite: Recommendation of student's education team. This course covers appropriate essential Math standards and is designed for students who need to build a stronger foundation in basic math skills. Topics include operations on rational numbers, ratio and proportion, percent, probability, properties of algebra, and data analysis. This course is the first in an integrated program of Math 1, Math 2, and Math 3, which satisfies the Algebra Concepts requirements for the Core Diploma only.

Algebra 1A*Course MA007G/MA008G, One Credit, Full Year*

The pacing in Algebra 1A allows for the reinforcement of basic skills while providing the foundations of algebra. Topics include order of operations, operations on rational numbers, evaluating and simplifying expressions, data analysis, solving linear equations and inequalities in one variable, rates, ratios, and proportions, applications of percentages, probability, and graphing linear functions. Problem-solving and critical thinking skills are incorporated throughout the course. Following Algebra 1A, students may progress to Algebra 1B or Algebra 1. The Algebra 1A and 1B sequence fulfill the Algebra requirement for graduation. Preparation for this course: Students should be able to perform basic operations on rational numbers.

Algebra 1*Course MA011G/MA012G, One Credit, Full Year*

Problem-solving and critical thinking skills are incorporated throughout the course. Topics include properties of the Real Number System, solving linear equations, inequalities, literal equations, quadratic equations, systems of equations graphing linear, quadratic functions, inequalities, and systems of inequalities, operations on polynomials, and rational and irrational numbers. Students entering this course should be able to perform operations on rational numbers without using a calculator. Following Algebra 1, students progress to Geometry.

Algebra 1 (H)*Course MA011H/MA012H, One Credit, Full Year*

This course provides an in-depth, fast-paced approach to the concepts of algebra. Students will complete in-class assignments as well as homework on a daily basis. Problem solving and critical thinking skills are incorporated throughout the course. Topics include properties of the Real Number System; solving linear equations, inequalities, literal equations, quadratic equations, and systems of equations; graphing linear and quadratic functions, inequalities, and systems of inequalities; operations on polynomials, rational and irrational numbers; and an introduction to functions and data analysis. Students entering this course should be able to perform operations on rational numbers without using a calculator. Following Algebra 1, students progress to Geometry.

Geometry*Course MA015G/MA016G, One Credit, Full Year*

Prerequisite: Successful completion of Algebra 1 or the equivalent. The course includes a study of plane, solid, and coordinate geometry and right triangle trigonometry. Constructions will be done throughout the course. Deductive and inductive reasoning skills will be used throughout the course. Problem-solving skills and algebraic concepts are incorporated throughout the course. Topics include basic geometric terms and figures, triangles, quadrilaterals, and other polygons, similarity, congruence, circles, perimeters, areas, and volumes, coordinate geometry, proofs, and right triangle trigonometry. Following Geometry, students may progress to Algebra 2 and Trigonometry.

Geometry (H)*Course MA015H/MA016H, One Credit, Full Year*

Prerequisite: Successful completion of Algebra 1 or the equivalent. Incoming Freshmen are eligible for enrollment in Geometry upon meeting predetermined qualifications. The course includes a comprehensive study of plane, solid, and coordinate geometry, as well as right triangle trigonometry, further enhanced through the application of algebraic concepts. Constructions are done throughout the course. A major portion of the course is devoted to deductive reasoning and proofs. Problem solving, critical thinking skills, and independent study are incorporated throughout the course. Topics include basic geometric terms and figures, triangles, quadrilaterals and other polygons, similarity, congruence, circles, perimeters, areas and volumes, coordinate geometry, and right triangle trigonometry.

Music

The Music Department in the City of Manchester seeks to provide real-world opportunities for our students. Students who take music courses will develop lifelong transferable skills to benefit them into adulthood as well as develop skills in the arts. Students can look forward to exciting classroom activities and memorable public performances. All courses in the Music department satisfy the Art graduation requirement.

Instrumental Instruction *Course MU001G, Half Credit, One Semester*
Instrumental Instruction offers students individual instruction in instrumental and vocal studies. Students will develop skills in musical technique and literacy. Students can choose to study from the following: traditional band and orchestra instruments, piano, guitar, and voice.

Color Guard *Course MU003G, Half Credit, One Semester*
This course gives members of the Color Guard instruction on basic flag work techniques and dance routines. Students are required to participate at football games, and parades. This course emphasizes musical concepts such as rhythm, form, and blend. This course will meet during the first semester only.

Band *Course MU005G/MU006G, One Credit, Full Year*
Band offers instruction in a variety of genres of music. The curriculum includes both a concert and marching band component with a summer band camp. The ensemble performs at football games, parades, civic events, and concerts. Attendance at these events is mandatory and graded.

Band (H) *Course MU005H/MU006H, One Credit, Full Year*
Honors Band offers instruction in a variety of genres of music. The curriculum includes both a concert and marching band component with a summer band camp. The ensemble performs at football games, parades, civic events, and concerts. Attendance at these events is mandatory and graded. Honors level students will have additional performance requirements.

Orchestra *Course MU013G/MU014G, One Credit, Full Year*
Orchestra offers instruction for string students in a variety of genres of music. Students will study proper playing technique and music literacy. Students perform at concerts and school assemblies throughout the year. Attendance at these events is mandatory.

Concert Choir*Course MU015G/MU016G, One Credit, Full Year*

Concert Choir offers instruction in singing music from a wide variety of genres. Any student who enjoys singing is encouraged to join. Students learn to sing with healthy vocal technique and music literacy. Concert Choir sings at concerts and school assemblies throughout the year. Attendance at these events is mandatory.

Modern Band*Course MU035G, Half Credit, One Semester*

Modern Band is a semester-long course designed to introduce students to the performance, arrangement, and creation of contemporary music. Using instruments typically found in popular music—such as guitar, bass, keyboard, drums, and vocals—students will explore various genres including rock, pop, hip-hop, and R&B. The course emphasizes collaboration, creativity, and real-world music skills, encouraging students to compose and perform in both group and solo settings. Students will learn basic music theory, song structure, and live performance techniques, preparing them for ensemble participation or further music study.

Music Around the World*Course MU019G, Half Credit, One Semester*

Music Around the World offers instruction in the fundamentals of music. Areas covered include basic music theory, the study of instrument groups, and the history of world music. No prior music experience is necessary.

Music of Western Europe*Course MU021G, Half Credit, One Semester*

Music of Western Europe offers instruction in the fundamentals of music. Areas covered include basic music theory, the study of instrument groups, and famous 'Classical' music composers and musical works. No prior music experience is necessary.

American Popular Music*Course MU023G, Half Credit, One Semester*

American Popular Music offers instruction on the roots and development of American popular music. Students will learn about the influencers of the past and make connections to the music we listen to today. No prior music experience is necessary.

Sound Production*Course MU033G, Half Credit, One Semester*

Students will be introduced to digital audio production through an online platform. Using digital audio workstations and live music recording, students will learn sound effects design for visual media. Students will discover how these design concepts can be used in the world of video game design as well as feature film. As with all areas of media production and post-production, the ability to collaborate with other members of a creative team will be stressed.

Music Theory 1*Course MU025G, Half Credit, One Semester*

Music Theory 1 offers instruction in beginning songwriting. Students will learn basic music terminology, symbols of music, and gain the skills for song composition. No prior music experience is necessary.

Beginning Guitar*Course MU029G, Half Credit, One Semester*

Beginning Guitar is designed for students who have limited or no guitar-playing experience. This course offers instruction in the fundamentals of playing the guitar. Students learn both melody playing and chord accompaniment. Students learn the basics of formal music notation, guitar tablature, and lead sheets. There are no public performances required with this course. No prior music experience is necessary.

Piano Keyboarding*Course MU031G, Half Credit, One Semester*

Piano Keyboarding is designed for students who have limited or no piano-playing experience. This course offers instruction in basic piano skills as well as music literacy. There are no public performances required with this course. No prior music experience is necessary.

Science

Science Department courses address the unifying concepts of systems, cycles, models, habits of mind, and the nature of science. Courses are aligned with the Next Generation Science Standards and emphasize the use and application of technology in the scientific world. After completing entry courses, students may choose from one of the many elective courses to explore a particular area of interest more thoroughly. Three science credits are required for graduation, including one credit in a physical science, and one in a biological science. If a student exceeds the required three credits, additional course work can be applied to the Digital Literacy requirement for graduation.

Physical Science*Course SC001G/SC002G, One Credit, Full Year*

This course covers introductory topics in chemistry and physics to include: properties of matter, atomic structure, compounds, reactions, motion, forces, energy, waves, sound and light. This course requires using critical thinking and problem-solving skills to apply physical laws and concepts will be reinforced in lab investigations. Algebraic thinking is used in developing an in-depth understanding of the above concepts.

Physical Science (H)*Course SC001H/SC002H, One Credit, Full Year*

This course covers introductory topics in chemistry and physics to include: properties of matter, atomic structure, compounds, motion, forces, energy, waves, sound, and light. This course requires in depth and thoughtful use of critical thinking and problem solving skills to apply physical laws and concepts will be reinforced in lab investigations. A strong command of Algebra is necessary to successfully master these concepts.

Social Studies

The Social Studies Department is proud of its tradition of educating students on fundamental elements of history that have shaped the contemporary world. The C3 Standards emphasize inquiry and students are provided opportunities to develop their passion for social studies topics of personal interest. All students are required to pass the United States Citizenship and Immigration Services (USCIS) exam for graduation.

US & NH Civics and Government *SS001G/SS002G, 1.5 Credits, Full Year*
Students analyze the impact of civic and political institutions in America and New Hampshire. Students participate in deliberation and discussion about the processes, rules, laws, and history that influence American and New Hampshire politics & government. This includes analysis of constitutions, branches of government, laws, and treaties that preserve local and national order. Students also complete the State required Civics exam which is required for graduation. This course is required for graduation.

US & NH Civics and Government (Honors) *SS001H/SS002H, 1.5 Credits, Full Year*
Students taking honors will be held to a higher standard of competence and deeper depth of knowledge which may require advanced research, writing, and other projects. Students analyze the impact of civic and political institutions in America and New Hampshire. Students participate in deliberation and discussion about the processes, rules, laws, and history that influence American and New Hampshire politics & government. This includes analysis of constitutions, branches of government, laws, and treaties that preserve local and national order. Students also complete the State required Civics exam which is required for graduation. This course is required for graduation.

AP United States Government and Politics *Course SS039A/SS040A, 1.5 Credits, Full Year*
AP United States Government and Politics is an introductory college-level course in United States government and politics. Students cultivate their understanding of the United States government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis. Students who complete the AP exam may be eligible for college credit.

Technology Education

Technology Education courses provide fundamental knowledge and skills in a variety of areas. Each course is designed to allow students to gain experience with technology that will benefit them throughout their lives and may lead to post-secondary studies or employment. Students wishing to build on knowledge in these courses should consider enrolling in a Career and Technical Education program of studies.

Library Science *Course FP017G, Half Credit, One Semester*

This is a work-study course that provides students with the opportunity to learn the basic operations of a Library Media Center. Students will be taught basic information science skills and the applications of various technologies. These skills will also be useful to students as they work on assignments for other courses. The course requires the student to work in the Library Media Center during each period when the class meets.

Keyboarding *Course FP019G, Half Credit, One Semester*

Keyboarding covers typing using all fingers without looking at the keys, posture, formatting skills, and the use of grammar, punctuation, and proofreading skills. Students learn finger placement on the keyboard and develop speed and accuracy skills through lessons, typing games, and timed typing assessments. Students learn to create a variety of documents with correct formatting for assignments and projects they may be required to complete while in school and in the future.

Computer Science Principles 1 *Course FP023G, Half Credit, One Semester*

Computer Science Principles 1 introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. This introduction to programming is a rigorous and engaging course that explores computer development techniques, computational thinking, troubleshooting, algorithm development, and more. Students reinforce learning and skills by planning, developing, and creating their own applications. This course satisfies the State computer literacy requirement for high school graduation.

Computer Science Principles 2 *Course FP025G, Half Credit, One Semester*

This course features an introduction to computer programming to develop interactive games, menu systems, and animations. Students investigate, through analyzing big data, security concerns such as individual identity theft, mail and network hacking, virus attacks, and defensive measures. In the final weeks, students will explore opportunities for future careers in technology. *Prerequisite: Successful completion of Computer Science Principles 1.*

Woodworking 1*Course FP035G, Half Credit, One Semester*

Woodworking 1 teaches the fundamentals of woodworking by planning and building several wood projects. You will learn proper measuring and layout techniques, the correct use of hand tools, and the safe operation of most major woodworking power tools and machines. Good craftsmanship techniques such as assembly, sanding, and finishing are employed on every project. Students will complete five projects during the semester.

Wellness

Promotion of health and physical activity is at the core of the courses offered in Wellness in the Manchester School District. Overall wellness, nutrition, lifestyle, and movement are emphasized in the courses offered.

Health Education*Course WE001G, Half Credit, One Semester*

The purpose of this course is to help students achieve and maintain health and wellness throughout their lives. Instructional content will include but is not limited to substance abuse, nutrition, human growth and development, and communicable and non-communicable diseases. Independent work and group projects assist students in understanding and application.

First Aid*Course SC021G, Half Credit, One Semester*

This course prepares students for certification in cardiopulmonary resuscitation (CPR) and first aid. Topics include normal functions of the human body, preventing and responding to medical emergencies, CPR, and automated external defibrillator (AED) use.

Physical Education*Course WE003G, Half Credit, One Semester*

This course will focus on lifelong fitness, sports, and activities.

Recreational Basketball*Course WE005G, Half Credit, One Semester*

This course introduces the physical education student to basic skills, rules, drills, fitness, and gameplay.

Recreational Sports*Course WE013G, Half Credit, One Semester*

In this course, students will learn the basic rules, skills, and gameplay strategies for a range of recreational sports that can be enjoyed individually, with a partner, or in a team. Sports may include tennis, badminton, pickleball, ping-pong, and corn hole. The focus is on learning new sports, fundamental skills, having fun, and the benefits of sportsmanship. Students will enjoy being active together in a relaxed, recreational environment.

Strength and Conditioning*Course WE007G, Half Credit, One Semester*

This course combines strength training and physical fitness through a variety of activities which include the use of free weights, machines, and various cardiovascular fitness exercises.

Walking for Fitness*Course WE009G, Half Credit, One Semester*

This course incorporates daily stretching and walking for the majority of the course meeting time. Emphasis will be placed on cardiovascular improvement by the students charting their target heart rates to maximize their overall physical fitness.

World Languages

Through promoting Linguistic and cultural literacy, the World Language Department strives to empower students in a multicultural society. Focusing on the communicative skills of listening, speaking, reading, and writing, the department believes that each student can learn and benefit from acquiring a new language to develop a global mindset.

American Sign Language 1*Course WL001G/WL002G, One Credit, Full Year*

This course introduces students to American Sign Language (ASL) and Deaf Culture. Students learn vocabulary surrounding greetings, personal information, living situations, and family and relationships. ASL Grammar is introduced in this course. Students also begin to learn about Deaf Culture and History.

French 1*Course WL009G/WL010G, One Credit, Full Year*

This is a beginning course for students who have no knowledge of French. Students will work to attain proficiency in the four skills of listening, speaking, reading, and writing. Students will learn basic vocabulary and grammatical structures as well as basic pronunciation. This course also includes the study of typical customs and geography of the French-speaking world. As the course progresses, students are expected to apply and demonstrate their skills daily.

French 2*Course WL011G/WL012G, One Credit, Full Year*

This course is designed to increase the student's proficiency in French. Students will strengthen their abilities in the four skills of reading, writing, speaking, and listening. The course will also include the study of the customs, geography, and history of Francophone countries.

Prerequisite: Successful completion of French 1, teacher recommendation, or Middle School French Credit.

German 1*Course WL019G/WL020G, One Credit, Full Year*

This is a beginning course for students who have no knowledge of German. Students will work to attain proficiency in the four skills of listening, speaking, reading, and writing. Students will learn basic vocabulary and grammatical structures as well as basic pronunciation. This course also includes a study of typical customs and geography of the German-speaking world. As the course progresses, students are expected to apply and demonstrate their skills daily. Experiences will be enriched by our partnership with the Käthe-Kollwitz-Gymnasium in Neustadt an der Weinstraße, Germany.

Latin 1*Course WL027G/WL028G, One Credit, Full Year*

This course introduces the basics of Latin vocabulary and grammar. While studying the influences of the Latin language and Roman culture on our society, students will gain a stronger use of the English language helpful for SAT preparation. Latin study also includes mythology, Roman customs, and early Roman history.

Spanish 1*Course WL037G/WL038G, One Credit, Full Year*

This is an introductory course in the Spanish language. Students work to attain proficiency in the four skills of listening, speaking, reading, and writing. Students learn basic vocab, and grammatical structures, as well as basic pronunciation. This course also includes the study of typical costumes and geography of the Spanish-speaking world. As the course progresses students are expected to apply and demonstrate their skills daily.

Spanish 2*Course WL039G/WL040G, One Credit, Full Year*

This course is designed to increase the student's proficiency in Spanish. Students strengthen their abilities in the four skills of reading, writing, speaking, and listening. The course also includes the study of the customs, geography, and history of Spanish-speaking countries. This course builds on previously acquired knowledge from Spanish 1. *Prerequisite: Successful completion of Spanish 1, teacher recommendation or Middle School Spanish Credit.*

NAVY JUNIOR RESERVE OFFICER TRAINING CORPS

Students from any Manchester high school may apply to attend West to participate in the NJROTC program. Please contact West High School Principal Dichard to apply.

Naval Science 1

Course MS001N/MS002N, One Credit, Full Year

Naval Science 1 is an introductory course in military drill, uniforms, military customs, and courtesies. Students are introduced to the History of the NJROTC program as well as citizenship and the law, authority, and personal responsibilities. The basics of naval ships and aircraft are also presented. Students participate in physical training and military drill practice during this course and there will be a heavy emphasis on self-discipline, motivation, responsible citizenship, and leadership development. Students learn how to incorporate leadership traits and principles in everyday activities. Field studies are planned and will relate to classroom learning.

ENGLISH LANGUAGE DEVELOPMENT

English Language Development (ELD) courses are designed for multilingual students who are developing proficiency in English as a new language. All ELD courses are aligned to the state-approved WIDA® ELD standards and integrate grade-level academic content as the context for language development. Language is taught using a functional approach to accelerate language development through authentic and purposeful uses. ELD courses are also centered on equity and designed to leverage the cultural and linguistic assets of multilingual learners. Placement in ELD courses is determined based on information gathered during a comprehensive in-take process that includes an assessment of students' current English language proficiency level, Mathematics performance level, and teacher recommendations. All ELD courses are pathways to the New Hampshire State Seal of Biliteracy award. For Multilingual Learners, two grade-level ELD classes may count toward meeting the graduation requirements for English. ELD -Newcomer is a skill-building elective course. <https://www.mansd.org/page/english-learners> for more information

Math for SLIFE 1

Course EL011G/EL012G, One Elective Credit, Full Year

This course is designed for students who have experienced limited or interrupted formal education (SLIFE), including limited access to formal mathematics instruction. The course is designed to accelerate student's readiness for Algebra I by strengthening core mathematical skills and concepts. The curriculum focuses on basic numeracy skills and the language of mathematics. Topics include operations of whole numbers, fractions and decimals, percentages, use of visual models, problem solving strategies, and strategies for solving word problems.
Note: This course counts as an elective credit toward graduation requirements.

Accelerated Pre-Algebra I for English Learners

Course EL017G/EL018G, One Elective Credit, Full-Year

Accelerated Pre-Algebra I for English Learners is intended for students who have had limited exposure to formal mathematics instruction. The course is designed to introduce or reinforce basic arithmetic skills while providing the foundations for Algebra. Topics include operations on whole numbers, fractions, and decimals; ratios and percents; order of operations, solving equations, evaluating and simplifying expressions, operations on integers, and graphing lines. Problem solving and critical thinking skills are incorporated throughout the course. Teacher recommendation is required. This course does not fulfill the Algebra requirement for graduation. Upon successful completion of this course, students may progress to Accelerated Pre-Algebra II, Algebra 1A, or Algebra I. Preparation for this course: Students should be able to perform basic operations on whole numbers and have beginning knowledge of fractions and decimals.

English Language Development-Newcomer

Course EL001G/EL002G, Two General Elective Credits, Full Year

The ELD-Newcomer course is designed for students who have been enrolled in U.S. schools for less than two years with an English Language Proficiency (ELP) score of 1.0-2.5 (as determined on the WIDA Screener). The course is a double-course period. The course uses translanguaging strategies to support the development of basic interpersonal communication skills, an understanding of the social and instructional language of learning, and the development of specific academic language across content areas. The course is also designed to support students' cultural transition, as they adjust to both a new academic and social school environment.

English Language Development—ELD Grade 9 A or B

ELD 9A - EL003G/EL004G, One English Credit & One Elective, Full Year (ACCESS SCORE 2.5 ~ 2.9)

ELD 9B - EL023G/EL024G, One English Credit, Full Year (ACCESS SCORE 3.0 ~ 3.9)

The course aims to accelerate the development of academic language across all four language domains: reading, writing, speaking, and listening. A functional approach to language instruction is used by integrating grade level academic content from all core content areas as the context for language learning. The courses in this sequence are also designed around four key language uses prominent across all academic disciplines: narrate, inform, explain and argue. By focusing on the four key language uses, students begin to recognize language structures as they investigate and explain phenomena, support claims with evidence, and share stories about their experiences.

Science and Engineering Skills for MLL Students Course SC031G , Half Credit. One Semester
Pilot course available at Central Only. This course will provide ML students with the opportunity to learn critical Science and Engineering skills and language to be successful in required science (physical science and biology) courses for graduation.

SUPPORT SERVICES

Courses in the Student Support Services Department are designed to adapt to the individual needs of students. The following reflects the current offerings. These may change from year to year as we seek to meet the individual needs of each new student population. Students, families, and the student's support services team will collaborate to determine the appropriate course selection for each student.

Adaptive Art *One Semester*

In Adaptive Art, students will explore and experience art in many forms. Within the group, each student's individual learning needs will be addressed including the development of one-to-one peer relationships. Students will experience art in many different ways including drawing, painting, learning about the art of other cultures, etc. *Prerequisite: Recommendation of student's Support Services team.*

Adaptive Technology and Career Skills *Full Year*

Adaptive Technology and Career Skills is designed to introduce students to the use of computers and other technology. It incorporates basic computer literacy and internet safety skills. Students will have the opportunity to familiarize themselves with the Google Suite, which will enable them to carry these skills into other classes. Students will become familiar with technology such as desktop computers, Chromebooks, and various computer applications. The goal of this course is to encourage the students to independently use technology, to prepare them for their course and future job skills. *Prerequisite: Recommendation of student's Support Services team.*

Adaptive Foods *Full Year*

Adaptive Foods is an introductory course in food science and nutrition. This course provides many life skills and explores the relationship between diet and health. With an emphasis on independence, students discover the ability to cook properly, leading to successful food preparation. Students will create tasty foods and snacks to meet their nutritional needs while applying food safety and sanitation techniques at all times. *Prerequisite: Recommendation of student's Support Services team.*

Adaptive Music Full Year

In Adaptive Music, students will explore and experience music in many forms. Within the group, each student's individual learning needs will be addressed including the development of one-to-one peer relationships. Students will sing, listen, learn songs of other cultures, create and perform rhythms and melodies, and use a variety of instruments. *Prerequisite: Recommendation of student's Support Services team.*

Adaptive Physical Education Full Year

Adaptive Physical Education's goal is to facilitate each student's different learning needs, including the development of one-to-one peer relationships. This will be done through a variety of physical education experiences with an emphasis on independence. Activities for this course will be a combination of sports, wellness, and nutrition to maintain a healthy lifestyle. Stressing lifelong learning with activities such as stretching, walking, and healthy living, this course will teach the importance of maintaining healthy fitness attitudes and habits throughout life. *Prerequisite: Recommendation of student's Support Services team.*

Life Skills Full Year

This course focuses on everyday skill-building for students. Skills include personal/social skills, hygiene, independent life skills such as cooking and clothing care, work competencies, and functional academics. *Prerequisite: Recommendation of student's Support Services team.*

Essential English Full Year

This course concentrates on supporting reading comprehension and writing skills. Students will work to improve their knowledge of the English language through a targeted learning approach that meets their individual reading and writing abilities. The students will complete class readings, writing assignments, and language skills (including reading short stories, novels, the writing process, group work, spelling, and vocabulary). The goal of this course is to encourage students to become independent in their reading and writing, following the support listed in their IEP. *Prerequisite: Recommendation of student's Support Services team.*

Essential Mathematics Full Year

Essential Mathematics prepares students for the conceptual development of fundamental math skills. The course will integrate concepts from number recognition, patterns, money concepts, time skills, measurement, life skills math, and basic algebra skills. The curriculum will reinforce topics throughout the year to continue the development of the student's understanding of math skills. The goal of this course is to encourage and prepare students to be independent in their math skills, following the support listed in their IEP. *Prerequisite: Recommendation of student's Support Services team.*

Essential Science Full Year

Essential Science is designed for students who require consistent review of foundational academics and academic skills in science. Hands-on activities are routinely practiced. Students also work on social skills which we use to communicate and interact with each other, both verbally and non-verbally, through gestures, body language, and personal appearance. The goal is to assist all students with achieving independence with the necessary skills needed to become successful individuals within their community. *Prerequisite: Recommendation of student's Support Services team.*

Essential Social Studies Full Year

Essential Social Studies is designed for students who require consistent review of foundational academics in the areas of social studies. Students are supported in working to improve their skills in reading, writing, listening, and speaking about history and government. Students also work on social skills which we use to communicate and interact with each other, both verbally and non-verbally, through gestures, body language, and personal appearance. The goal is to assist all students with achieving independence with the necessary skills needed to become successful individuals within their community. *Prerequisite: Recommendation of student's Support Services team.*

Resource Services Half Credit, Full Year

This course is designed to support and monitor students identified as eligible for special education services to ensure IEP goals and objectives are implemented as well as ensure progress within the regular education program is achieved. It is intended to develop learning strategies and study skills that are integral to being successful in high school as well as in post-secondary settings. Students are measured on time management skills, class engagement, organizational skills, work ethic, and utilization of resources. Students strive to become independent learners. *Prerequisite: Recommendation of student's Support Services team.*

Reading Resource Half Credit, Full Year

This elective course is designed to improve the wide scope of reading-related skills at the high school level. This course is designed to teach decoding techniques to students who are reading at an instructional level that is below their current grade level. It is designed to strengthen decoding skills and increase the student's independent reading level. At the beginning of the school year, students are tested and their reading needs are determined. The curriculum is tailored to develop individual skills in the following areas: word recognition, word structure, vocabulary building, fluency, comprehension, reasoning ability, and study skills. This is done through teaching Reading Efficiency, Reading Comprehension, and Improving Vocabulary. *Prerequisite: Recommendation of student's Support Services team.*

MST-HS COURSES

The following courses are available to students enrolled full-time at Manchester School of Technology High School.

HUMANITIES

Humanities 1 *Course 3131, Two Credits, Full Year*

This team-taught, interdisciplinary course challenges students to understand the development of societies around the world. The development of civics resulting from the growth of complex societies will be examined. Students are required to work collaboratively on group projects and presentations, write extensively, and present orally. Grammar, vocabulary development, literary analysis, and basic research methods will be the focus of the instruction. Students may earn 1.0 credit in English and 1.0 credit in Social Studies (.5 World History, .5 Civics).

ENGLISH LANGUAGE DEVELOPMENT

English Language Development—ELD Grade 9 A or B

ELD 9A - 3205, One English Credit & One Elective, Full Year (ACCESS SCORE 2.5 ~ 2.9)

ELD 9B - 3206, One English Credit, Full Year (ACCESS SCORE 3.0 ~ 3.9)

The course aims to accelerate the development of academic language across all four language domains: reading, writing, speaking, and listening. A functional approach to language instruction is used by integrating grade level academic content from all core content areas as the context for language learning. The courses in this sequence are also designed around four key language uses prominent across all academic disciplines: narrate, inform, explain and argue. By focusing on the four key language uses, students begin to recognize language structures as they investigate and explain phenomena, support claims with evidence, and share stories about their experiences.

MATHEMATICS

Algebra 1A *Course 3230, One Credit, Full Year*

The pacing in Algebra 1A allows for the reinforcement of basic skills while providing the foundations of algebra. Topics include order of operations; operations on rational numbers; evaluating and simplifying expressions; data analysis; solving linear equations and inequalities in one variable; rates, ratios, and proportions; applications of percents; probability, and graphing linear functions. Problem-solving and critical thinking skills are incorporated throughout the course. This class does not fulfill the required Algebra credit needed to graduate.

Algebra 1*Course 3109, One Credit, Full Year*

Problem-solving and critical thinking skills are incorporated throughout the course. Topics include properties of the Real Number System, solving linear equations, inequalities, literal equations, quadratic equations, systems of equations graphing linear, quadratic functions, inequalities, and systems of inequalities, operations on polynomials, and rational and irrational numbers. Students entering this course should be able to perform operations on rational numbers without using a calculator. Following Algebra 1, students progress to Geometry.

Geometry*Course 3111, One Credit, Full Year*

Prerequisite: Successful completion of Algebra 1 or the equivalent. This self-paced course includes topics of fundamental geometry concepts including parallel lines, triangles, quadrilaterals, other polygons, similarity, congruence, circles, perimeters, areas, volumes, and an introduction to basic trigonometry. Successful students gain competence in the areas of geometric properties, similarity, congruence and measurement through traditional individual assessments, individual projects, and group projects.

SCIENCE

Physical Science*Course 3116, One Credit, Full Year*

This course prepares students for biology and further study in science. It is a survey of physics and chemistry. Topics covered are matter, energy, motion, and force with the applications to CTE programs. The program includes topics from earth and space science that relate to technology and the application of technology to solve problems in the environment and industry.

WELLNESS

Wellness*Course 3290, One and a Half Credits, Full Year*

The topics covered support the required competencies for Health and Physical Education. This course aims to help students achieve and maintain health and wellness throughout their lives. Instructional content will include but is not limited to sporting endeavors, physical fitness, substance abuse, nutrition, human growth and development, and communicable and non-communicable diseases. Independent work and group projects assist students in understanding and application.

WORLD LANGUAGE

French 1

Course 3165, One Credit, Full Year

This is a beginning course for students who have no knowledge of French. Students will work to attain proficiency in the four domains of listening, speaking, reading, and writing. This course also includes the study of typical customs and geography of the French-speaking world. As the course progresses, students are expected to apply and demonstrate their skills daily.

Latin 1

Course 3221, One Credit, Full Year

This course introduces the basics of Latin vocabulary and grammar. While studying the influences of the Latin language and Roman culture on our society, students will gain a stronger use of the English language helpful for SAT preparation. Latin study also includes mythology, Roman customs, and early Roman history.

Spanish 1

Course 3221, One Credit, Full Year

This is an introductory course in the Spanish language. Students will work to attain proficiency in the four domains of listening, speaking, reading, and writing. Students will learn basic vocab, and grammatical structures, as well as basic pronunciation. This course also includes the study of typical customs and geography of the Spanish-speaking world. As the course progresses students are expected to apply and demonstrate their skills daily.

NON-DISCRIMINATION POLICY AND FERPA STATEMENT

Non-Discrimination Policy

It is the policy of the Manchester School Board that there will be no discrimination on the basis of age, sex, gender, gender identity, race, creed, color, religion, marital status, familial status, sexual orientation, national ethnic origin, economic status or disability for employment in, participation in, admission/access to, or operation and administration of any educational program or activity in the Manchester School District. Please see Board of School Committee policy Foundations 101.2: Non-Discrimination for the full statement regarding non-discrimination in the schools.

FERPA Statement

It is the policy of the Manchester Board of School Committee that all school district personnel will follow District regulations/procedures as they pertain to the maintenance of student records and comply with the provisions of the Family Educational Rights Privacy Act (FERPA) and its corresponding regulations. Please see Board of School Committee policy Students 151: Student Records and Access for the full statement regarding student data confidentiality.

ADDITIONAL CREDIT OPPORTUNITIES

The Manchester School District understands that learning can happen in a variety of environments. The following opportunities are available to students to gain additional credits toward graduation or recover missed credits. Students should speak with their teachers or school counselor for more information about any of the opportunities described.

Advisory

Students may earn credit through engaging in activities via Advisory programming. Advisory provides dedicated time for students to access and utilize the Xello platform for self-exploration, to explore college and career interests, build future-readiness skills, and develop personalized postsecondary plans. Students will create and maintain their Xello profiles, completing activities like career interest surveys, skills assessments, and projects tailored to their grades 9-12.

Community Service

A student may earn one-half credit (0.5) over one school year for 75 documented hours of community service. Students will need to provide documentation of completed hours.

Concurrent Enrollment

Concurrent enrollment programs enable high school students to take college courses while still enrolled in high school, and at a discounted price from an institution's standard fees. Students are able to make progress on high school graduation requirements while getting a head start on college courses.

Credit and Competency Recovery

Credit recovery is available for Junior and Senior students who did not earn credit while enrolled in a class. Credit recovery is a self-paced, rigorous opportunity that is generally accomplished on an online learning platform. Competency recovery offers all students the opportunity to complete assessments designed to capture singular competencies or concepts not mastered during a particular class. School administration must approve all applications for the credit recovery program.

Driver Education

A student may earn one-half credit (0.5) for successfully completing a course with a State of New Hampshire licensed driving school. Students will need to provide documentation of completion.

Extended Learning Opportunity (ELO)

The ELO Program in the Manchester School District is an opportunity for all students. These include, but are not limited to: internships, community service, independent study, private instruction, work-based learning, and more. The granting of credit will be based on a student's demonstration of core competencies, as approved by certified personnel. If interested in an ELO, please contact your school counselor.

Virtual Learning Academy Charter School (VLACS)

VLACS is an online educational opportunity for all New Hampshire students. VLACS offers free online courses that can be taken to augment course offerings, make up missed or failed work, or help with scheduling conflicts. Courses can be taken from home or in a monitored room on campus. VLACS courses require disciplined work habits. Courses that are designated as honors or AP in the VLACS Learning Catalog will be given the same course weight as equivalent coursework at a Manchester High School. For more information please visit <https://vlacs.org/>.

Work Based Learning Opportunities

Work Based Learning Opportunities include, but are not limited to, job shadows, internships, and preapprenticeship hours. These opportunities allow students to spend time working in a given field of interest prior to graduating high school and gain valuable on-the-job training. Participation in Work Based Learning Opportunities may result in high school credit.

NATIONAL COLLEGIATE ATHLETIC ASSOCIATION

The National Collegiate Athletic Association (NCAA) provides opportunities for college athletes. Students compete in one of three Divisions adopted in 1973: Division I, Division II or Division III. Student-athletes who hope to participate in NCAA sports must register with the NCAA Eligibility Center.

The NCAA assists college-bound student-athletes and families who wish to practice and compete in Division I, Division II, or Division III college athletics. Initial eligibility standards help maintain fairness.

Students are ultimately responsible for their eligibility. Strong school work habits and planning will help prepare the student-athlete to enjoy a successful amateur status upon entering college. Teachers, school counselors, and coaches are available to support student-athletes in their preparation to become a college student-athlete. Please contact the guidance department to discuss plans and to ensure guidelines for eligibility are met throughout high school. Any student-athlete wishing to compete at the collegiate level should meet with the school counselor to plan their courses. For more information please visit <https://web3.ncaa.org/ecwr3>

CONCURRENT ENROLLMENT COLLEGE PROGRAMS

In partnership with higher education institutions, the Manchester School District offers students the opportunity to enroll in college courses while simultaneously remaining enrolled in high school. Students (16+ years old) are eligible to enroll in concurrent enrollment courses (indicated with a "C" throughout the course catalog). It is important to know that at this time, these opportunities are typically not available to Freshmen.

There are several benefits to taking a college course while still enrolled in high school.

- Get ready for college rigor - By taking college courses, students experience the expectations and workload preparedness needed for college-level academics.
- Earn early college credits - High schoolers can demonstrate to colleges their ability to handle college academics by earning transferrable university credits ahead of time.
- Reduced cost - concurrent enrollment courses cost a fraction of the cost of regular college tuition fees (only \$100-\$150 per course in many cases), saving thousands compared to normal college tuition. Contact a school counselor for scholarship information.
- Wide transferability - Credits typically transfer to other colleges and universities (check individual school policies), with grades and credits earned recorded on an official college transcript.