FVDC
FARMINGTON VALLEY
DIAGNOSTIC CENTER

2025-2026

Program of Studies

CREC Excellence in Education

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Capitol Region Education Council

FARMINGTON VALLEY DIAGNOSTIC CENTER (FVDC) PROGRAM OF STUDIES

At Farmington Valley Diagnostic Center (FVDC), we recognize the unique needs of our students and are committed to providing a comprehensive educational experience that extends beyond traditional academic instruction. Our core courses are thoughtfully designed and taught by our dedicated teachers, who are trained to integrate therapeutic and educational strategies that support the diverse needs of our students.

Given the center's specialized focus on short-term placements, our courses are intentionally designed to align with the quarter system, offering 0.25 credits upon completing each course. This structure enables students to earn credits efficiently, particularly those working toward specific academic goals outlined in their high school transcripts. Additionally, our classes are designed to work seamlessly together, enabling students to earn a full (1) or half (0.5) credit when completing four or two related courses. This integrated approach supports a wide range of differentiation in the classroom, accommodating various learning styles and needs.

Our curriculum is carefully designed to meet high school standards while ensuring students acquire academic knowledge and develop essential life skills and social-emotional competencies. Through our therapeutic, whole-student approach, students learn to generalize their learning, build resilience, and cultivate strong interpersonal skills that will benefit them beyond the classroom. At FVDC, we are committed to empowering our students to succeed academically, socially, and emotionally, guiding them toward future success and well-being.

Table of Contents

Who We Are

The Farmington Valley Diagnostic Center (FVDC) is a specialized educational environment that provides thorough diagnostic and educational services to students with unique learning needs. Established to assist students, families, and school districts, FVDC emphasizes personalized assessment and intervention strategies that address specific academic, behavioral, and emotional challenges. Using a multidisciplinary approach, FVDC creates customized educational plans to improve student learning and growth, ensuring that each student gets the support they need to succeed in their educational journey. With a team of skilled professionals, FVDC is dedicated to creating a supportive environment that promotes academic success and personal growth, thereby providing families with peace of mind regarding their children's well-being.

Our Mission

To provide compassionate and individualized programming for students in grades 6-12, identify their unique behavioral, social/emotional, and academic needs to help them access the most appropriate and least restrictive educational environment and achieve ongoing success.

Our Intent

Our primary focus at the Farmington Valley Diagnostic Center (FVDC) is preparing students for the multifaceted challenges and opportunities they will face. Our comprehensive approach to education emphasizes developing essential skills and qualities that enable students to succeed in diverse settings and situations. At FVDC, we are committed to equipping students with the skills, knowledge, and support they need to succeed in school, their future careers, and life. Through personalized instruction, therapeutic interventions, and a supportive community environment, we empower students to reach their full potential and become confident, capable, and compassionate individuals.

PORTRAIT OF A STUDENT LEARNER

FVDC
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OUR CORE VALUES

We Solve Problems

We effectively identify, analyze, and address challenges, whether they involve struggles or the pursuit of success, by adapting to changing circumstances and accepting reality.

We Have Grit

We can endure setbacks, persevere through challenges, and maintain determination while cultivating resilience and stamina to overcome obstacles and strive for success.

We Actively Take the Next Steps

We actively navigate our journey to adulthood by developing life skills, self-reliance, independence, citizenship, and compassion, instilling a sense of responsibility and engagement to prepare us for future challenges.

We Effectively Communicate

We have effective communication skills, including active listening, socialization, teamwork, and conflict resolution, all grounded in social-emotional competencies that foster connection and understanding.

We Self-Advocate

We advocate for our needs, rights, and aspirations, demonstrating autonomy, self-awareness, self-regulation, and self-determination with support.

We Use Critical Thinking

We use critical thinking skills to navigate complex issues and make decisions within our circle of influence.

Introduction to the Program of Studies

The Farmington Valley Diagnostic Center (FVDC) Program of Studies offers a comprehensive guide to high school courses, academic opportunities, and valuable resources for students, families, and district partners. It offers a diverse range of classes tailored to various interests and abilities, with a focus on core academics and specialized programs designed to meet individual needs. The guide details course content, credits, and instruction aligned with curriculum standards, fostering a rigorous yet supportive environment that promotes both academic and personal growth. It helps students and families make informed educational decisions and assists district partners in developing appropriate programs and meaningful transcripts meeting Connecticut standards.

Framework for the Program of Studies

The Farmington Valley Diagnostic Center (FVDC) Program of Studies is built around a framework designed to meet the needs of students during their short-term educational placement. FVDC is not intended to be a comprehensive high school, and therefore, does not offer the full range of courses typically found in most high schools. Instead, it emphasizes a holistic educational approach that includes the social and emotional development of participating students. The program focuses on addressing the immediate needs of the student body while also helping students develop lifelong skills to reintegrate into their full high school experiences. As a result, the framework of the Program Studies reflects this by offering three main types of courses: Core Courses, Extension Courses, and Uniquely Tailored Courses.

Types of Courses

Core Courses: These courses, essential to the Farmington Valley Diagnostic Center (FVDC) framework, are available to all students throughout the year. They teach vital academic subjects and are designed to ensure continuity in students' education. These courses provide a consistent and rigorous educational experience at FVDC. They are aligned with the Connecticut state high school graduation requirements, and the instruction follows national and state standards, building confidence in students about the quality of their education. As with all courses at FVDC, these are differentiated to meet each student's individual needs.

Extension Courses: These flexible courses can be chosen based on each student's needs. Extension courses offer students the opportunity to explore their interests or focus on specific

learning areas. They are designed to meet federal transition services requirements or to help fulfill Connecticut state high school requirements.

Uniquely Tailored Courses: These courses, developed with the student's district, address specific educational needs and challenges, providing targeted support and interventions. FVDC aims to offer a personalized experience that supports academic and social-emotional growth, enabling students to reach their full potential, reintegrate successfully, and feel supported and confident throughout their journey.

Grading Practices

Farmington Valley Diagnostic Center (FVDC) prioritizes student development in a supportive environment, tracking progress through tests, observations, and feedback to ensure success. We focus on academic achievement, positive attitudes, effort, and growth. We follow reporting schedules, communicate with parents about concerns, and keep them informed, fostering confidence. Students receive regular report cards per the school calendar, and PPT can adjust grading practices. FVDC communicates with parents, guardians, and district partners about progress. If a student is at risk of failing, staff are notified promptly. The home district manages final grades, with FVDC providing grades, reports, and credits—especially when students leave—supporting informed decisions and accurate records.

Credits

At Farmington Valley Diagnostic Center (FVDC), our approach to course credits reflects the unique nature of our program, which operates on a quarter-based system, where each course is assigned 0.25 credits per quarter. This structure aligns with the short-term nature of our educational model, enabling students to engage deeply with each subject within a condensed timeframe. Courses at FVDC are intentionally designed to be modular and cohesive, allowing them to be seamlessly combined to fulfill larger credit requirements, such as 0.5 or 1.0 credits for students who stay in the program longer. When grades and credits are sent back to the home district for inclusion in the student's transcript and educational record, FVDC ensures that each course's credits accurately reflect the student's achievement and the difficulty of the coursework completed. FVDC does not assign final grades for courses, but home districts can generate final grades using the information provided by FVDC. This framework supports flexibility in academic planning and offers a complete view of the student's educational progress at FVDC.

Transcripts

Transcripts document a student's academic progress, including grades, courses, and credits, as maintained by the student's home district. FVDC provides data to ensure accurate record-keeping when students leave, helping districts update transcripts correctly, as course titles may vary across institutions. The Planning and Placement Team's decisions can influence a student's educational plan and transcript, including accommodations. FVDC's detailed documentation supports students' academic and future success.

Core Courses

At Farmington Valley Diagnostic Center (FVDC), our core courses, offered consistently throughout the year, meet the Common Core State Standards and other benchmarks to ensure a high-quality academic experience. They are designed holistically, integrating critical life skills and social-emotional learning to promote well-rounded development. Our trained teachers accommodate diverse needs with strategies that create an inclusive environment.

FVDC's commitment differs from traditional education. We aim to empower students with the knowledge, skills, and resilience needed for success inside and outside the classroom. Our core courses support this goal, offering a comprehensive education that prepares students for lifelong learning.

English

The Farmington Valley Diagnostic Center (FVDC) offers English courses that build essential life skills and foster a resilient mindset, aligning with Common Core Standards. Our teaching highlights the interconnectedness of reading and writing, promoting critical thinking and reasoning. Students learn to access, interpret, analyze, and evaluate ideas and information, draw evidence-based conclusions, synthesize new learning with existing knowledge, and reflect critically on their learning process. Through self-reliance and compassion, students navigate challenges, preparing themselves for success in college and their chosen career paths.

Freshman English Academy A-D

Freshman English Academy courses aim to give first-year high school students a solid foundation in English language arts. These courses help develop essential skills in reading, writing, speaking, and critical thinking. Students explore various literary genres, including fiction, nonfiction, poetry, and drama, to enhance their comprehension and analysis skills. They analyze texts to improve interpretive skills and appreciate literature, focus on clear writing through various essays, and practice drafting, revising, and editing. Students also participate in activities designed to enhance their oral communication skills, including presentations, discussions, and collaborative projects. The courses include instruction in grammar, syntax, and vocabulary to support writing and speaking. Overall, these courses foster a love of reading and writing while preparing students for high school and future challenges, encouraging creativity, critical thinking, and effective communication.

English Seminar A-D

The English Seminars A-D for grade 10 explore literature and composition, essential for high school and beyond. Students examine the human condition through texts, honing critical thinking and analytical skills. The courses cover contemporary and classical fiction, teaching students to analyze ideas and build persuasive arguments with evidence. Emphasizing communication, teamwork, and conflict resolution, students develop active listening, critical thinking, and decision-making skills while exploring compassion and citizenship. Overall, FVDC's seminars provide a strong foundation in literature and life skills for success.

English Symposium A-D

English Symposiums A-D are designed for 11th-grade students to improve their mastery of the English language arts. These courses focus on enhancing skills in literary analysis, critical thinking, and advanced writing. Students explore various complex literary genres, including fiction, non-fiction, poetry, and drama, to develop interpretive and analytical abilities. Key components include engaging with challenging texts to improve critical reading and appreciation for diverse literary forms, as well as emphasizing advanced writing techniques through essays that incorporate research-based, analytical, and argumentative styles. Students refine their drafting, revising, and editing skills to produce polished, impactful writing while participating in activities that strengthen their oral communication, including discussions, debates, and presentations. The courses also incorporate advanced instruction in grammar, syntax, and vocabulary to promote clear communication. English Symposiums aim to foster a love for literature and writing, equipping students for post-secondary and professional success by fostering curiosity, critical thinking, and eloquent communication, preparing them for higher-level English studies and beyond.

Senior English Seminars A-D

Senior English Seminars A-D are advanced courses for 12th graders designed to culminate high school English studies. Divided into four semester-long classes, they focus on literary analysis, advanced writing, and critical thinking. Students work with challenging texts, including literature, nonfiction, poetry, and drama, to enhance their analysis and interpretation skills. The courses explore complex themes and structures, emphasizing writing techniques through research papers, critiques, and essays. Students refine drafting, revising, and editing to produce scholarly

work. Activities such as seminars, debates, and presentations help develop oral communication skills. Advanced grammar, syntax, and vocabulary instruction enhance precise writing and speaking. These seminars cultivate a passion for literature and writing while preparing students for college and careers, fostering intellectual engagement, critical thinking, and effective communication.

English Courses Scope and Sequence

PS Code	SCED Code	Grade	Category	Course Title	Semester	Credit	Alternative Titles
QCEN1000	01001	9	English	Freshman English Academy A	August - November	0.25	English 9, English I, Literature and Composition
				Freshman English Academy B	November - January	0.25	
				Freshman English Academy C	January - April	0.25	
				Freshman English Academy D	April - June	0.25	
QCEN2000	01002	10	English	English Seminar A	August - November	0.25	English 10, English II, Literature and Composition
				English Seminar B	November - January	0.25	
				English Seminar C	January - April	0.25	
				English Seminar D	April - June	0.25	
QCEN3000	01003	11	English	English Symposium A	August - November	0.25	English 11, English III, Literature and Composition
				English Symposium B	November - January	0.25	
				English Symposium C	January - April	0.25	
				English Symposium D	April - June	0.25	
QCEN4000	01004	12	English	Senior English Seminar A	August - November	0.25	English 12, English IV, Literature and Composition; English Seminars
				Senior English Seminar B	November - January	0.25	

PS Code	SCED Code	Grade	Category	Course Title	Semester	Credit	Alternative Titles
				Senior English Seminar C	January - April	0.25	
				Senior English Seminar D	April - June	0.25	

Mathematics

Farmington Valley Diagnostic Center (FVDC) mathematics courses are designed to equip students with the essential skills and knowledge necessary to comprehend numerical concepts and their real-world applications. Our instruction emphasizes problem-solving, critical thinking, and adaptability, equipping students with the tools to overcome obstacles and achieve success. As students progress through our math courses, they develop a strong foundation in mathematical principles, build resilience, and foster a growth mindset. This mindset, which encourages learning from mistakes and embracing challenges, is key to our students' success. Additionally, our courses promote self-reliance, independence, and effective communication, preparing students for future transitions into college, adulthood, and beyond. Focusing on collaborative learning and hands-on experiences, our math programs inspire students to persevere through difficulties and cultivate a lifelong passion for learning.

Algebra IA-ID

Algebra IA-ID covers key concepts of linear and exponential functions, essential for understanding real-world phenomena. Students will analyze, write, and interpret equations and inequalities, gaining vital problem-solving skills. This approach reassures students and parents about the course's importance. Students will use critical thinking to build and assess mathematical arguments, analyze data, apply modeling techniques, and work confidently with function notation. They will explore different representations of functions, including numerical, algebraic, graphical, and recursive forms. By the end, students will have deepened their understanding of algebra, enhanced their critical thinking skills, and established a solid foundation in mathematics.

Algebra IIA-IID

Algebra IIA-IID deepens understanding of algebra and functions, building on Algebra I with complex topics like systems, quadratic, exponential, logarithmic, inverse power, square root, cube root, and polynomial functions. Students solve real-world problems, applying models to practical

situations. The courses focus on review, new material, and skills like adaptability, resilience, and critical thinking, preparing students for advanced math, college, and life. These skills enhance problem-solving, independence, and decision-making, ultimately benefiting both students and parents.

Geometry A-D

Geometry A-D courses deepen students' understanding of geometry and enhance problem-solving skills through critical and creative thinking. Students explore triangle congruence, similarity, constructions, transformations, coordinate geometry, and right triangle trigonometry. Using hands-on activities and software, they investigate and prove theorems about quadrilaterals and circles with inductive and deductive reasoning. These courses emphasize applying math to real-world situations, fostering modeling, problem-solving, self-reliance, and a growth mindset.

The Essentials of Financial Management A-B

The Essentials of Financial Management A-B courses examine key principles of managing money in today's complex environment. Students explore various aspects of personal finance, including earning, saving, spending, and investing, as well as economic concepts such as income reporting, credit, investments, and insurance, to understand their impact on financial well-being. Through activities, discussions, and projects, students apply financial theory to real-world scenarios, learn about financial services, and grasp the importance of planning for economic independence. By the course's end, they have developed practical skills for managing personal and broader financial matters.

Planning Your Financial Future A-B

Planning Your Financial Future A-B are specialized courses teaching students key skills for personal finance, including money management and budgeting. They focus on practical strategies, hands-on activities, and real-world scenarios to help students control their finances, plan for the future, and achieve independence. Emphasizing algebraic and numeric concepts, the courses develop critical thinking, problem-solving, adaptability, resilience, and self-reliance, preparing students to handle financial challenges and make informed decisions.

Math Courses Scope and Sequence

PS Code	SCED Code	Grade	Category	Course Title	Semester	Credit	Alternative Titles
QCMA1000	02052	9-12	Algebra	Algebra IA	August - November	0.25	Algebra I, Algebra IA, Algebra IB
				Algebra IB	November - January	0.25	
				Algebra IC	January - April	0.25	
				Algebra ID	April - June	0.25	
QCMA2000	02056	9-12	Algebra	Algebra IIA	August - November	0.25	Algebra II, Algebra IIA, Algebra IIB
				Algebra IIB	November - January	0.25	
				Algebra II	January - April	0.25	
				Algebra IID	April - June	0.25	
CQ2100	02072	9-12	Geometry	Geometry A	August - November	0.25	Geometry
				Geometry B	November - January	0.25	
				Geometry C	January - April	0.25	
				Geometry D	April - June	0.25	
QCMA3000	19262	9-12	Personal Finance	The Essentials of Financial Management A	August - November	0.25	Personal Finances, Finance, Financial Literacy
				Planning Your Financial Future A	November - January	0.25	
				The Essentials of Financial Management B	January - April	0.25	
				Planning Your Financial Future B	April - June	0.25	

Social Studies

History and social studies courses at the Farmington Valley Diagnostic Center (FVDC) aim to cultivate essential understanding and skills for effective citizenship in a democratic society and a globally interconnected world. Students are encouraged to explore various cultures. Instruction provides students with the tools to navigate life's complexities, both past and present. They build problem-solving and critical thinking skills. Additionally, the courses promote qualities vital for responsible citizenship, such as compassion and effective communication. Students learn the value

of collaboration and conflict resolution, preparing them to make positive contributions to society. Ultimately, the history and social studies courses at FVDC foster an understanding of the world's historical and social complexities, equipping students with the skills and mindset needed to create a better future for themselves and society.

Indigenous Peoples in North America

The Indigenous Peoples in North America course explores the histories, achievements, struggles, perspectives, and collaborations of Indigenous communities across the continent. Students analyze Indigenous history as part of U.S. history, covering topics such as federal Indian policy, land issues, reservations, and Indigenous arts, music, literature, and languages. The course promotes critical discussions and projects to build problem-solving and critical thinking skills, fostering understanding and respect for different viewpoints. Its goal is to cultivate compassion, resilience, and global citizenship, enabling students to make positive contributions to society. It also examines Connecticut's sovereignty-recognized tribes, providing authentic learning through primary sources and activities to deepen understanding of Indigenous histories and current issues.

The Formation of the U.S.

The U.S. course enhances students' understanding of the nation's origins and growth by exploring cultural, economic, political, and social factors. Students analyze how developments are interconnected, evaluate various sources, and learn to contextualize historical events within their broader context. The course emphasizes citizenship, encouraging students to critically analyze information and build supported claims, thereby preparing them to be informed civic participants and deepening their understanding of the impact of American history on modern society.

Paths to Equality in the Civil Rights Movement

In the Paths to Equality in the Civil Rights Movement course, students explore the Civil Rights Movement, analyzing the fight for equality faced by marginalized communities. The course begins with its origins, examining historical, social, and political contexts. Students explore persistent racial inequalities in American history, analyzing how they've been addressed. Through detailed analysis, students examine key events, figures, and strategies, gaining insight into this pivotal period. The course focuses on developing critical thinking and problem-solving skills using primary and secondary sources to understand civil rights issues. Students develop compassion, recognizing the importance of effective communication and active citizenship. The course prepares students to

engage in ongoing discussions about equality and human rights by encouraging diverse perspectives and fostering societal contributions. Overall, it aims to equip students with the knowledge and skills to understand the impact of the Civil Rights Movement and apply its lessons to foster a more equitable society.

The Story of Today in America's Journey

The Story of Today in America's Journey is a comprehensive course on American history from the late 19th century to the present, emphasizing key events, movements, and changes that have shaped U.S. society, politics, culture, and economy. Students analyze primary and secondary sources to develop critical thinking skills, examine cause-and-effect relationships, and evaluate the impact of historical decisions on current issues. The course emphasizes essential skills such as problem-solving and communication, developing these skills through discussions, debates, and group projects that foster teamwork and conflict resolution. It explores concepts such as citizenship, self-advocacy, autonomy, and self-awareness, preparing students to be informed and active members of society. By studying modern U.S. history, students gain insight into past challenges, fights for justice, and the resilience that have shaped the nation. By analyzing history and current events, students will gain a deeper understanding of the world today, make informed decisions, and contribute to society. The course promotes critical thinking, diversity, and the interconnectedness of past, present, and future, inspiring lifelong appreciation for history and responsible citizenship in a changing global landscape.

The Constitution

The Constitution course thoroughly examines the US Constitution, focusing on its development, structure, and significance. Students will discuss the historical context and key principles, such as the separation of powers, federalism, and individual rights, and analyze how these principles are reflected in the government. The course covers the original articles and amendments, examining their interpretations and societal impact. Interactive activities and debates will help students apply their knowledge, fostering critical thinking and civic literacy. They will appreciate the Constitution as a living document that shapes American democracy and remains relevant to current issues.

Civic Duties in Action

The Civic Duties in Action course engages students in understanding practical principles of citizenship, emphasizing critical thinking and citizen participation in society. Students learn about rights, responsibilities, and how the American government empowers civic involvement. The course emphasizes democratic decision-making, civic participation, and the impact of individual actions on policy and community well-being. It encourages critical thinking about current events, history, and civic roles. Through activities and projects, students develop problem-solving, adaptability, and resilience skills, learning to navigate societal issues, engage diverse perspectives, and express viewpoints. The course emphasizes practical civic applications, including community service, local governance, and advocacy for social change, fostering reflection on civic responsibilities. Its goal is to prepare students as informed, active members of society, with skills in communication, adaptability, and civic engagement, enabling them to make meaningful contributions and solve problems effectively.

Exploring Federal, State, and Local Government

The Exploring Federal, State, and Local Government course examines key institutions and principles of the U.S. government. It helps students understand how governance functions at the federal, state, and local levels, as well as the interactions between these levels. Students explore American government structures, including the roles of different branches and levels, covering topics like separation of powers, federalism, and balancing individual rights with societal needs. The course analyzes government successes and challenges in public policy, fostering insights into governance and public administration. Emphasizing connections between history, theory, and current events, it helps students relate new information to ongoing political and social issues. Students also develop problem-solving, adaptability, and communication skills essential for civic engagement. By the end of the course, students will understand government structures, participate in public policy discussions, and assume civic responsibilities, preparing them to be informed, engaged citizens capable of addressing community and national issues.

Governments in Action

The Governments in Action course examines political institutions and processes across countries such as China, Iran, Mexico, Russia, and the UK. It offers a global perspective on how nations address political challenges within their unique contexts. Students compare political systems,

explore how governments operate, implement policies, and address issues within their socio-cultural and historical backgrounds. They gain insights into global political complexities by analyzing data, identifying patterns, and drawing conclusions about governance, policymaking, and international relations. The course involves engaging with primary sources, scholarly articles, and case studies, developing critical reading, argumentation, and communication skills. Students present analyses and participate in discussions on global political issues.

Ancient Cultures

The Ancient Cultures course examines the development and achievements of major civilizations, offering a vital global perspective. It explores their contributions, innovations, and legacies that shape modern society. Students analyze the influence of ancient cultures on politics, economics, technology, art, and philosophy through activities such as primary source analysis, research, essays, presentations, mock trials, and debates, thereby enhancing their critical thinking, reasoning, and teamwork skills. The course builds life skills such as problem-solving, communication, and collaboration, fostering understanding of how ancient cultures influence current practices. This broadens self-awareness, empathy, and cultural appreciation. By the end of the course, students gain knowledge of ancient civilizations and develop skills to navigate a complex world.

Cultural Crossroads and Global Interactions

The Cultural Crossroads and Global Interactions course offers a comprehensive examination of world history and cultural dynamics, enabling students to analyze and understand the interconnected world. It explores cultural history, diplomatic relations, and social and economic structures that shaped regions. Students study key events, figures, and developments that have influenced modern societies. By comparing cultural growth and interactions, they gain insight into how societies have evolved and influenced one another. The course emphasizes analyzing primary and secondary sources to develop well-supported historical arguments and evaluate comparisons, causation, continuity, and change, linking history to current global issues. This fosters understanding of how historical processes impact today's societal structures and relationships. By the end of the course, students will have a deeper appreciation for global diversity and a better understanding of the historical and cultural contexts that shape today's world. They will be prepared to approach global interactions with informed perspectives and a commitment to

responsible citizenship and lifelong learning, inspiring them to become thoughtful, engaged global citizens who value human history and cultural exchange.

Black and Latinx Narratives

The Black and Latinx Narratives course explores the histories, achievements, challenges, and perspectives of these communities in the U.S. Students examine contributions of leaders, artists, and activists who influence cultural, political, and economic landscapes. They analyze sources to develop critical thinking about racial and ethnic disparities, engaging in discussions on identity and systemic impacts. The course promotes understanding of diverse narratives, fostering resilience, empathy, and civic responsibility, while equipping students with skills to address bias and advocate for equity. It emphasizes connections between past and present experiences, deepening appreciation for diversity, social justice, and community engagement. This prepares students to tackle the ongoing challenges faced by marginalized groups and become proactive members of society.

Current Issues and Trends in the World Around Us

The 'Current Issues and Trends in the World Around Us' course explores pressing global issues shaping our world, like political ideologies, government roles, economic trends, conflicts, and societal changes. Students analyze these issues through discussions, focusing on their impact on local and global communities. The course emphasizes the evolving news media, encouraging critical assessment of news, commercial influences, and digital engagement. It aims to develop critical thinking, problem-solving skills, adaptability, resilience, effective communication, and active citizenship, enabling students to articulate their ideas, engage with diverse viewpoints, contribute to public discussions, and make informed decisions in a complex and interconnected world.

Social Studies Courses Scope and Sequence

PS Code	SCED Code	Grade	Category	Course Title	Semester	Credit	Alternative Titles
QCSS1000	04065	9-12	U.S. History	Indigenous Peoples of North America	August - November	0.25	U.S. History, Native American Studies, Civics
				The Formation of the U.S.	November - January	0.25	

PS Code	SCED Code	Grade	Category	Course Title	Semester	Credit	Alternative Titles
				Paths to Equality in the Civil Rights Movement	January - April	0.25	
				The Story of Today in America's Journey	April - June	0.25	
QCSS1001	04161	9-12	Civics	The Constitution	August - November	0.25	Civics, Government, U. S. History, Modern World, Comparative Governments
				Civic Duties in Action	November - January	0.25	
				Exploring Federal, State, and Local Government	January - April	0.25	
				Governments in Action	April - June	0.25	
QCSS1002	04053	9-12	World History	Ancient Cultures	August - November	0.25	World History, Archaeology, Human Civilization Modern World, Comparative Governments, African American Studies, Black/Latinx Studies, Civics, Government
				Cultural Crossroads and Global Interactions	November - January	0.25	
				Black and Latinx Narratives	January - April	0.25	
				Current Issues and Trends in the World Around Us	April - June	0.25	

Science

Farmington Valley Diagnostic Center (FVDC) science courses aim to spark curiosity, encourage exploration, and build a deep appreciation for the wonders of the natural world. Based on academic standards and innovative teaching methods, our science instruction provides students

with hands-on experiments, opportunities for critical thinking, and collaborative learning experiences that foster a deeper understanding of the subject. Whether exploring chemistry, biology, physics, or environmental science, students are motivated to think critically, solve problems creatively, and connect science to their daily lives. Focused on developing essential 21st-century skills, our science courses at FVDC prepare students to become informed, engaged, and responsible citizens, ready to navigate and contribute to a constantly changing global world.

Life at the Microscopic Level

The Life at the Microscopic Level course dives into cellular biology, focusing on the basic building blocks of life at the smallest scale. It provides a foundation for understanding how cellular processes and structures support complex living organisms, especially humans. Students explore cellular functions, organelles, cell division, respiration, and metabolism, along with concepts like cellular differentiation, gene expression, and the effects of abnormalities on health. By linking structures to functions, students see how these components contribute to the operation of an organism.

The course emphasizes critical thinking, problem-solving, and analysis. Students are encouraged to approach scientific challenges with curiosity, fostering appreciation for the natural world. Studying life at the microscopic level helps students develop skills to tackle biological questions and contribute to discussions on health, disease, and living systems.

The Classifications of Life

The Classifications of Life is an engaging course that deepens students' understanding of the diversity and complexity of living organisms. It emphasizes problem-solving, critical thinking, and analytical skills while fostering appreciation for life's interconnectedness. Students explore classification systems, ranging from simple one-celled organisms to complex multicelled creatures, studying taxonomy and phylogenetics to understand how organisms are classified based on shared traits and evolutionary relationships. Through discussions, labs, and activities, students gain practical experience in scientific inquiry, learning to gather, analyze data, and draw evidence-based conclusions. The course promotes adaptability, resilience, and the ability to grasp complex concepts, encouraging curiosity and passion for Earth's biodiversity.

Biomes and Biology

Biomes and Biology examines our planet's ecosystems and the principles of life. It combines problem-solving, critical thinking, and innovative methods to explore biological systems, with a particular focus on cells. Students investigate global biomes, organism adaptations, and ecological interactions through discussions, labs, and field studies. They learn about the structure and function of organisms, ranging from single-celled to complex multicellular beings. The course also develops skills in data collection, presentation, analysis, and reasoning, enabling students to draw conclusions and communicate findings effectively. It prepares students to explore and contribute to the fields of biology and ecology.

The Life Cycle

The Life Cycle course covers the journey of life from birth to maturity, providing an understanding of the stages and processes shaping living organisms. It combines problem-solving, critical thinking, and innovative methods to explore the field of biological development. Students study fundamental processes, including conception, growth, and maturity, as well as topics such as cellular development, embryogenesis, puberty, aging, and regulatory mechanisms. By examining various life forms, students learn how organisms develop and how biological systems—such as the cardiovascular, respiratory, nervous, and endocrine systems—work together to sustain life and adapt across different life stages. The course combines lectures, lab work, and projects, featuring activities such as data analysis, experiments, and case studies on human development and health, which help students develop scientific skills and gain a deeper understanding of the complexities of life.

Electricity and Magnets

The Electricity and Magnetism course explores key physics concepts related to electricity and magnetism, enabling students to gain a deeper understanding of these fundamental areas of physical science. Students will study classical mechanics, including kinematics and dynamics, to understand motion and forces, as well as universal gravitation and oscillations that influence our environment. In magnetism, they examine magnetic fields and forces, their properties, and interactions with electric currents. The course covers electromagnetism, including electromagnetic induction, which shows how changing magnetic fields generate electrical currents. Hands-on experiments enable students to apply theory to real-world situations, fostering problem-solving,

data analysis, and evidence-based conclusions. Critical thinking exercises link theory with practical applications.

Mass and Matter

Mass and Matter provides students with a comprehensive understanding of the fundamental principles that govern the physical world, emphasizing the nature of mass, matter, and their interactions. This course explains thoroughly the fundamental laws that shape our universe, exploring the details of how mass and matter behave and interact in various situations. Students will examine how atoms combine to form molecules and the importance of these interactions in different states of matter, including solids, liquids, gases, and plasmas. The course also covers how matter changes from one state to another and the energy involved in these transformations. Students will learn how energy is transferred and transformed in physical systems. Through this study, students will gain insights into how energy influences the behavior of matter and the physical phenomena observed in everyday life. The course focuses on active, hands-on learning through experiments and investigations. Students will design and conduct experiments to test and apply their understanding of physics concepts, from measuring mass and volume to observing chemical reactions and analyzing physical changes. These practical experiences are essential for developing a deep, intuitive understanding of the material. Students will participate in various activities that encourage critical and analytical thinking. They will learn to carefully collect and analyze data, interpret experimental results, and draw evidence-based conclusions. Clear and precise communication of their findings will be a crucial part of the learning process, enabling students to explain their understanding of complex concepts effectively.

Light, Sound, and Color

The Light, Sound, and Color course explores the relationships between these physics aspects, helping students understand light waves, sound waves, and color perception. It explores how light, sound, and color influence our perception, with a focus on color science, including the creation, interaction with light, and perception of colors. Students learn about additive and subtractive color models and their roles in natural and artificial settings. They participate in experiments on the properties of light and sound, including reflection, refraction, diffraction, and their applications in optical devices, while studying sound generation, propagation, detection, and the effects of sound on health and communication. The course promotes critical thinking, problem-solving, and innovation by designing experiments, analyzing data, and applying knowledge to real-world

challenges, such as creating optical devices or studying the effects of sound. Aligned with Next Generation Science Standards, it builds a strong foundation in scientific inquiry, fostering appreciation for the scientific method and preparing students for research and discovery.

The Math and Mechanics of Science

The Math and Mechanics of Science course covers fundamental physics principles, with a focus on Newtonian mechanics, work, energy, and power. It combines theory and practical application, emphasizing algebra and math to analyze phenomena and develop problem-solving skills. Hands-on experiments test concepts, enhance understanding, and promote critical thinking about the physical world. Students learn to apply algebra to solve problems, analyze data, and interpret results, building a strong foundation in algebra-based physics. By the end of the course, they develop the skills to succeed in advanced STEM fields and pursue further studies with confidence.

The Human Effect

The Human Effect course explores the relationship between human activities and environmental impact. Students examine ecological issues like deforestation, climate change, and resource management, engaging in scientific inquiry, critical thinking, and problem-solving. They learn about the effects of deforestation on biodiversity, sustainable resource use, pollution, and waste reduction through hands-on projects and research. The course develops analytical and communication skills to advocate for sustainability, preparing students to address environmental challenges thoughtfully and responsibly. It fosters empathy and innovative solutions, enabling them to become responsible stewards of the planet.

Erosion and Deposition

Erosion and Deposition offers students a comprehensive look at the powerful natural forces that shape Earth's surface. This course explores the scientific principles that underlie natural phenomena, including hurricanes, tornadoes, earthquakes, volcanic eruptions, tsunamis, and impact events, providing students with a deeper understanding of the dynamic processes that continually shape the planet. Throughout the course, students will explore the interconnectedness of Earth's systems, highlighting the complex relationships between geology, meteorology, and human activities. They will learn how these natural forces interact and influence each other, leading to significant changes in the landscape. The course emphasizes scientific analysis of environmental issues, encouraging students to evaluate the risks associated with both natural and

human-made disasters. Students will study the mechanisms of erosion and deposition, examining how water, wind, ice, and gravity contribute to the formation of landforms. They will explore the causes and effects of earthquakes and tsunamis, analyzing geological factors and their impact on communities. Additionally, students will investigate asteroid and comet impacts, considering their role in shaping Earth's surface and life. They will assess solutions to mitigate the effects of disasters. This part of the course fosters critical thinking and problem-solving skills, enabling students to develop disaster preparedness and environmental management strategies. The course prepares students to face challenges posed by natural and human-made disasters, fostering a sense of responsibility for the Earth's resources and environments.

Mineralogy

Mineralogy offers an immersive exploration of minerals, crystals, and geological formations, examining scientific principles behind Earth's mineral compositions, formation processes, and their role in shaping landscapes and resources. Students explore the properties, classification, and formation processes of minerals, gaining insights into their ecological, resource, and societal roles. The course fosters collaboration through group investigations of mineral identification, crystallography, and the environmental impacts of mineral exploitation. Through discussions, labs, and field studies, students develop critical thinking and scientific skills, culminating in a deeper understanding of the contributions of minerals and the ability to analyze the intersections of geology, the environment, and society.

Creating Sustainable Environments

Creating Sustainable Environments explores the balance between human development and environmental stewardship through hands-on, inquiry-based projects that focus on ecological issues, including sustainable agriculture, alternative energy, and recycling. It promotes interdisciplinary and collaborative work, teaching students to assess risks, evaluate solutions, and make informed decisions for a resilient and sustainable future. The course fosters active participation and provides the tools to cultivate ecological responsibility, empowering students to lead sustainable initiatives and understand the link between human actions and environmental health, inspiring positive global impact.

Discovering the Building Blocks of Matter

Discovering the Building Blocks of Matter is a comprehensive course that explores the periodic table and its role in understanding the fundamental building blocks of matter. It provides students with a foundation in chemistry principles, encouraging critical thinking through inquiry, interactive activities, and real-world applications. Students examine the structure, properties, and patterns of elements, connecting atomic structure to chemical reactivity and physical properties. Aligned with the Next Generation Science Standards, the course incorporates lab experiments, projects, and skills development in data analysis and communication. Topics include atomic theory, electron configuration, trends, bonding, and the evolution of the periodic table. By linking ideas to practical applications, students appreciate the importance and role of chemistry in various scientific fields, fostering curiosity, discovery, and a lifelong love of learning.

Liquids in Motion

Liquids in Motion introduces students to the world of chemistry, focusing on the behavior and properties of liquids. They will participate in inquiry-based investigations emphasizing problem-solving, critical thinking, and innovation. The course covers atomic structure, intermolecular forces, bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Students explore the building blocks of matter, how nuclear structure and forces influence liquid properties, and the mechanisms of chemical reactions, including factors that affect rates and the role of catalysts. They learn about thermodynamics principles, energy transfer, heat capacity, and energy laws. The course examines chemical equilibrium, reversible reactions, and factors that shift the balance. Aligned with the Next Generation Science Standards, it integrates real-world applications and contemporary issues, highlighting the roles of liquids in industries such as pharmaceuticals, environmental science, food technology, and materials engineering. Emphasis is placed on the role of chemistry in addressing global challenges, including water purification, energy, and climate change. Students engage in hands-on experiments, design investigations, analyze data, and draw conclusions. These activities deepen understanding and develop skills in scientific inquiry and communication, preparing them for future scientific pursuits.

From Atoms to Molecules

From Atoms to Molecules explores the principles of atoms and molecules, the fundamental building blocks of matter. It emphasizes both theory and practical applications, illustrating how

chemistry impacts daily life, society, and the environment. Students gain hands-on experience through labs, teamwork, and discussions, linking complex concepts to observable phenomena. They develop analytical and communication skills by analyzing data, forming conclusions, and defending findings. Topics include conservation laws, thermodynamics, reaction rates, and chemical equilibria. By exploring and experimenting, students gain an understanding of the role of chemical bonds in determining properties and connect abstract concepts to real-world phenomena, thereby fostering curiosity about the molecular world.

Chemistry in Real Life

Chemistry in Real Life connects theoretical concepts with practical applications, such as environmental sustainability, energy, pharmaceuticals, and consumer products, emphasizing the importance of problem-solving and critical thinking. Students explore key processes impacting society and the environment, gaining a deeper understanding of chemistry's principles and effects. Aligned with the Next Generation Science Standards, this program features hands-on labs, discussions, and group projects to develop skills in data analysis, critical thinking, and effective communication. Topics include conservation laws, thermodynamics, reaction rates, and chemical equilibria, addressing global challenges. The course fosters ethical awareness of chemical advancements, encouraging responsible citizenship and informed decision-making. Through exploration and reflection, students cultivate a curiosity about chemistry's relevance to their lives, careers, and global issues, preparing them for careers in science, engineering, healthcare, or informed citizenship.

Science Courses Scope and Sequence

PS Code	SCED Code	Grade	Category	Course Title	Semester	Credit	Alternative Titles
QCSC1000	03051	9-12	Biology	Life at the Microscopic Level	August - November	0.25	Biology, Life Science
				The Classifications of Life	November - January	0.25	
				Biomes and Biology	January - April	0.25	
				The Life Cycle	April - June	0.25	
QCSC2000	03159	9-12	Physics	Electricity and Magnets	August - November	0.25	Physics
				Mass and Matter	November - January	0.25	

PS Code	SCED Code	Grade	Category	Course Title	Semester	Credit	Alternative Titles
				Light, Sound, and Color	January - April	0.25	
				The Math and Mechanics of Science	April - June	0.25	
QCSC3000	03001	9-12	Earth Science	The Human Effect	August - November	0.25	Environmental Science, Earth Science, Geology
				Creating Sustainable Environments	November - January	0.25	
				Erosion and Deposition	January - April	0.25	
				Mineralogy	April - June	0.25	
QCSC4001	03101	9-12	Chemistry	Discovering the Building Blocks of Matter	August - November	0.25	Chemistry
QCSC4000				From Atoms to Molecules	November - January	0.25	
				Chemistry in Real Life	January - April	0.25	
				Liquids in Motion	April - June	0.25	

Physical Education, Health, and Wellness

Physical Education, Health, and Wellness improve students' health literacy by enhancing their skills, knowledge, and understanding of healthy living. Our courses prepare students for challenges by building problem-solving skills, adaptability, and resilience. Essential life skills, including communication, teamwork, and conflict resolution, are integral components of the program. We emphasize self-awareness, self-regulation, and self-determination, fostering independence and self-advocacy. Ultimately, our goal is to guide students toward a balanced and healthy lifestyle, preparing them for future success.

Exercise Science A-D

Exercise Science A-D covers lifelong fitness and wellness, including circuit training, aerobics, HIIT, yoga, meditation, and resistance training. These courses boost endurance, strength, flexibility, mental clarity, and well-being. Students learn about the physiological and psychological benefits of fitness, understanding how the body and mind adapt to activity. They develop skills like problem-solving, resilience, self-reliance, and self-awareness, which are essential for managing stress and maintaining a balanced lifestyle. Practical activities involve designing and leading

training programs and yoga routines, fostering teamwork, communication, and self-advocacy. By the end of the course, students will have acquired the knowledge, skills, and confidence to incorporate fitness practices into their daily lives for long-term health benefits.

Teen Life: Mental Health and Coping A-B

Teen Life: Mental Health and Coping A-B focuses on overall wellness by addressing physical, mental, social, and emotional health. These courses provide essential health information, support healthy lifestyle choices, and develop skills for lifelong wellness. Key topics include influences on behavior and wellness, mental health, reducing stigma and addiction, accessing local resources, and fostering healthy relationships. Students will engage in various activities, including coping strategies, grounding techniques, and practices such as yoga, meditation, and stretching. These courses promote self-regulation, communication, teamwork, and self-advocacy while building problem-solving, adaptability, resilience, self-awareness, and critical thinking skills. A personal development project that includes a mental health component with a tracked SMART goal allows students to apply their knowledge to real-life situations. By the end of these courses, students will have acquired the knowledge and skills necessary to manage adolescence with a balanced and healthy approach to mental and physical well-being.

Nutrition and Fitness A-B

Nutrition and Fitness A-B explore the principles of healthy eating and exercise, highlighting their impact on well-being. The course combines theory and practical skills to help students make informed health decisions. Topics include nutrients, food labels, meal planning, and the relationship between diet and health. Students learn the Food Guide Pyramid, label reading, sugar and portion control, and fitness components. They will understand the role of nutrition and exercise in preventing diseases, maintaining energy, and boosting well-being. Interactive lessons, activities, and real-world applications build critical thinking about nutrition and fitness. The courses also cover dietary guidelines, food safety, and cultural aspects of eating, showing how choices fit broader contexts. By the course end, students will have created balanced meal plans, grasped the importance of portion control and exercise, and made health-conscious choices.

Physical Education, Health, and Wellness Courses Scope and Sequence

PS Code	SCED Code	Grade	Category	Course Title	Semester	Credit	Alternative Titles
QCPE1001	08052	9-12	Physical Education	Exercise Science A	August - November	0.13	P.E., Health, Wellness, Health and Wellness
				Exercise Science B	November - January	0.13	
				Exercise Science C	January - April	0.13	
				Exercise Science D	April - June	0.13	
QCHE1000	08057	9-12	Health and Wellness	Teen Life: Mental Health and Adolescence A	August - November	0.13	Health, Wellness, Health and Wellness
				Teen Life: Mental Health and Adolescence B	November - January	0.13	
QCPE1000	19253	9-12	Health and Wellness	Nutrition and Fitness A	January - April	0.13	Health, Wellness, Health and Wellness
				Nutrition and Fitness B	April - June	0.13	

Health and Safety

Health and Safety courses equip students with the knowledge and skills to understand the essentials of health and safety practices. The course introduces basic safety principles and emergency preparedness, including first aid and cardiopulmonary resuscitation (CPR). These courses prepare students for real-life situations by promoting critical thinking, problem-solving, and resilience in safety scenarios. Students acquire the skills to make informed safety decisions and contribute to maintaining a safe and healthy environment in various settings.

First Aid/CPR Certification and Personal Health

The First Aid/CPR Certification and Personal Health course teaches students vital skills and knowledge to respond effectively to medical emergencies, focusing on both emergency response techniques and personal health awareness. Covering a wide range of topics, students will learn basic first aid procedures, CPR, and how to use automated external defibrillators (AEDs). The course also emphasizes the importance of personal health practices and maintaining overall wellness to support effective emergency responses. Through hands-on training and interactive scenarios, students will develop confidence and competence in handling emergencies, with an emphasis on taking quick, decisive action and communicating clearly. Upon completing the course,

students will earn certification in First Aid and CPR, recognized by national health organizations. This certification not only serves as a valuable safety credential but also encourages personal health habits that contribute to community safety and individual well-being.

Human Growth, Development, Safety, and Health A-B

Personal Health, Digital Safety, and Health A-B equip students with the skills to navigate the digital world, personal relationships, and overall well-being in a responsible manner. Understanding digital safety and sexual health is essential today. The courses cover online privacy, cyberbullying, digital footprints, identity theft, social media safety, human growth, development, and responsible relationships. Students learn to protect personal information, prevent cyberbullying, manage their digital presence, and develop healthy social media habits. They also gain knowledge about human development, consent, relationships, and sexual health. Through interactive lessons, exercises, and case studies, students build critical thinking and problem-solving skills related to digital safety, growth, and responsible decision-making. The courses emphasize ethical behavior, responsibility, and awareness. By the end of the courses, students will be able to protect themselves both online and offline, make informed health and safety choices, and communicate respectfully and responsibly.

Health and Safety Courses Scope and Sequence

PS Code	SCED Code	Grade	Category	Course Title	Semester	Credit	Alternative Titles
QCHE1001	08051	9-12	Health and Safety	Human Growth, Development, and Safety A	August - November	0.13	Health and Safety, Health, Wellness
	08055			First Aid/CPR Certification and Personal Health A	November - January	0.13	
	08051			Human Growth, Development, and Safety B	January April	0.13	
	08055			First Aid/CPR Certification and Personal Health B	April - June	0.13	

Art

Art courses at the Farmington Valley Diagnostic Center (FVDC) develop critical thinking and problem-solving skills, and foster creativity and innovation. A balance of product and process helps

students become more flexible and productive thinkers and creators of art. By engaging with contemporary visual culture, students enhance their awareness of the challenges and competitive nature of the art world, developing the adaptability and flexibility necessary for success in this field. Students will enhance their communication and teamwork skills by learning to collaborate effectively through various art projects. By exploring contemporary and historical perspectives in art, they develop a deeper appreciation for global art and its essential role in daily life.

Exploring the World of Visual Arts A-B

The Exploring the World of Visual Arts A-B courses offer students a comprehensive introduction to the visual arts, cultivating creativity, technical skills, and an appreciation for the arts. Covering mediums such as drawing, painting, sculpture, and digital arts, students explore techniques and styles through hands-on projects, learning principles including composition, color theory, and perspective. The courses emphasize critical thinking, problem-solving, and developing creative voices, while also exposing students to careers and real-world art examples. They delve into contemporary and historical movements from diverse cultures, enhancing understanding of art's societal and cultural roles. Students improve in self-expression, communication, collaboration, art criticism, and self-assessment, laying a solid foundation for further art studies and a lifelong appreciation of the arts.

Art, Reflection, and Personal Themes A-B

Art, Reflection, and Personal Themes A-B are courses designed to develop a cohesive body of work focused on a personal inquiry theme. Students will produce original artworks throughout the courses, exploring their selected themes through various media and techniques. Emphasis is placed not only on creating the artwork but also on the critical process of articulating the concepts and methodologies behind each piece. Students will research, plan, and execute projects to build their portfolios. They will document their creative processes and reflections, thereby improving their ability to communicate their artistic vision. This reflective practice is key to the course, fostering a deeper understanding of their work and creative growth. By the end of the course, students will have developed a well-crafted portfolio that showcases their skills and provides a solid foundation for future studies in any field of interest. These courses strengthen students' overall academic profiles and prepare them for advanced academic pursuits, ensuring they are ready to articulate and showcase their creative achievements.

Art Courses Scope and Sequence

PS Code	SCED Code	Grade	Category	Course Title	Semester	Credit	Alternative Titles
QCAR1000	05154	9-12	Fine Art	Exploring the World of Visual Arts A	August - November	0.06	Drawing, Visual Arts, Painting, Fine Arts, Art Portfolio
QCAR1001				Art, Reflection, and Personal Themes A	November - January	0.06	
QCAR1000				Exploring the World of Visual Arts B	January - April	0.06	
QCAR1001				Art, Reflection, and Personal Themes B	April - June	0.06	

Technology

The Farmington Valley Diagnostic Center (FVDC) technology courses provide students with essential skills in computer science and related fields. These courses prepare students for a digital and connected world by emphasizing practical application and real-world problem-solving. The courses explore technological innovations, digital safety, information technology, and software development, offering a strong foundation for further education or direct entry into the workforce. Through project-based learning, collaborative assignments, and exposure to industry practices, students gain hands-on experience to meet the demands of today's technology-driven environments.

Technology in a Modern World A-B

Technology in a Modern World A-B offers students a thorough overview of the tools and systems shaping today's world. These courses cover core technology concepts, including computer science, digital innovations, and the impact of emerging technologies on society. Students examine software, hardware, networking, cybersecurity, and the ethical considerations surrounding the use of technology. Through practical projects and interactive lessons, they build skills in problem-solving, critical thinking, and teamwork. They learn to use technology responsibly and effectively across different contexts, including academic research, creative tasks, and daily activities. The courses also emphasize the importance of staying current with technological trends and adapting

to the rapidly evolving digital landscape. By completion, students will possess the knowledge and skills to confidently engage with technology, preparing for future education and careers in a tech-centered world.

Innovations Using Technology A-B

Innovations Using Technology A-B explore the latest developments and creative applications across different fields. These courses enable students to understand, engage with, and contribute to technological advances that transform industries and society. Key topics include emerging technologies such as artificial intelligence, virtual reality, 3D graphics, and graphic design. Students will examine how technology fuels innovation in areas like business and entertainment. They will participate in project-based learning to design and prototype new creations. These courses focus on critical thinking, creativity, and collaboration, encouraging students to think beyond traditional methods and explore the limits of what's possible with technology. By the end of these courses, students will have gained a deep understanding of how technology can be used to create new opportunities and address complex problems. They will be prepared with the skills and mindset necessary to become innovators in a rapidly changing technological landscape.

Technology Courses Scope and Sequence

PS Code	SCED Code	Grade	Category	Course Title	Semester	Credit	Alternative Titles
QCTE1001	11151	9-12	Technology	Technology in a Modern World A	August - November	0.06	Technology, Computer Science
QCTE1000				Innovations Using Technology A	November - January	0.06	
QCTE1001				Technology in a Modern World B	January - April	0.06	
QCTE1000				Innovations Using Technology B	April - June	0.06	

Extension Courses

Extension Courses provide learning opportunities tailored to individual needs, interests, goals, and skill development. At Farmington Valley Diagnostic Center (FVDC), we believe in providing a comprehensive educational experience that includes courses designed to help develop essential life skills. Our Extension Courses encompass a diverse range of subjects and activities, including advanced academic topics, practical life skills, enrichment experiences, and transition or post-secondary options. Our dedicated staff is committed to delivering high-quality instruction, guidance, and supervision throughout the courses, ensuring students feel secure and cared for as they progress in their educational journey. These courses not only increase academic knowledge but also promote personal growth, independence, and life skills, preparing students for future challenges and opportunities.

Postsecondary and Transition Experiences

Our Postsecondary and Transition Experiences prepare students for success in college, careers, and independent living while meeting the requirements of the Individuals with Disabilities Education Act (IDEA). Our program emphasizes developing essential skills such as problem-solving, adaptability, self-reliance, and self-advocacy, which are vital for navigating life's challenges. We focus on academic coursework, vocational training, and hands-on experiences to ready students for the realities of post-secondary education, career development, and independent living. We promote critical thinking, communication, and teamwork skills, empowering students to succeed in both academic and real-world settings. Through our program, students build self-awareness, self-regulation, and determination, equipping them to make informed decisions and overcome obstacles with resilience and grit. With our support, students transition confidently into adulthood, ready to pursue their goals and reach their full potential.

Work Experience

Work Experience enables students to acquire practical skills, workplace knowledge, and real-world experience in a professional environment. Students can explore various industries, professions, and career paths through internships, job shadowing, or part-time employment placements. They will develop vital workplace skills such as communication, teamwork, problem-solving, and time management while gaining insight into workplace expectations and professional conduct. The course emphasizes the application of academic knowledge in real-world situations and encourages students to reflect on their experiences to identify their strengths, areas for growth, and career

interests. Additionally, students will receive guidance and support from mentors or supervisors to maximize their learning and development during their work experience. By participating in Work Experience, students will gain valuable insights, skills, and confidence to pursue their career goals and make informed decisions about their future education and careers.

Exploring and Planning for Post-Secondary Learning Experiences

Exploring and Planning for Post-Secondary Learning Experiences is a comprehensive course designed to help students navigate the transition to higher education and other post-secondary options. This course covers essential topics, including exploring post-secondary choices, admissions requirements, financial planning, and career exploration. Students will examine various post-secondary pathways, including colleges, universities, vocational schools, and apprenticeship programs, to understand the different opportunities available. The course guides research into post-secondary institutions, understanding admissions criteria, and preparing application materials. Additionally, students will learn about financial planning for post-secondary education, including exploring scholarship and grant opportunities, understanding the cost of attendance, and navigating the financial aid process. The course also features career exploration activities to help students align their post-secondary goals with their academic and career aspirations. Through interactive lessons, guest speakers, and experiential learning activities, students will gain valuable insights into the post-secondary landscape and develop practical skills to support their transition to higher education or vocational training. By the end of the course, students will be equipped to make informed decisions about their post-secondary journey and take the necessary steps to pursue their academic and career goals.

Exploring and Planning for Careers

Exploring and Planning for Careers is a dynamic course that guides students through exploring various career options and developing personalized career plans. This course covers essential topics, including career exploration, goal setting, skill development, and professional networking. Students will embark on a journey of self-discovery to identify their interests, strengths, values, and goals. Through interactive assessments, personality or career interest inventories, and career exploration activities, students will gain insight into different career paths and industries that align with their unique attributes and aspirations. They will learn the importance of acquiring relevant skills, credentials, and experiences to succeed in their chosen fields. Additionally, students will explore strategies for building professional networks, conducting informational

interviews, and accessing career resources to support their career development. The course also addresses practical topics such as resume writing, job search strategies, and interview preparation. Students will gain valuable insights and tools to navigate the ever-changing workforce landscape. By the end of the course, students will be empowered to make informed decisions about their career paths and take proactive steps toward achieving their professional goals.

Postsecondary and Transition Courses Scope and Sequence

PS Code	SCED Code	Grade	Category	Course Title	Semester	Credit
QCCP4100	19257	9-12	Transition	Exploring and Planning for College	August - November	0.25
				Exploring and Planning for Careers	November - January	0.25
TBD	TBD	10-12		Work Experience	Determined by Team	0.25

Achieving High School Mastery

Achieving High School Mastery Courses engage students in experiences aligned with the skills outlined in the Portrait of the Graduate, articulated in many school districts. These courses foster deep learning and mastery of essential competencies that prepare students for success in high school and beyond. Achieving High School Mastery Courses focus on developing critical skills such as problem-solving, adaptability, self-reliance, and communication, which are essential for navigating the complexities of the modern world. Through real-life projects and experiential learning opportunities, students will develop a growth mindset and resilience to overcome challenges and achieve their goals. Students will cultivate the social, emotional, and cognitive skills necessary for success in college, careers, and civic life. Our courses empower students to become lifelong learners who are prepared to tackle the challenges and opportunities of the future with confidence and competence.

Community Service

Community Service is a transformative experience that offers students opportunities to meaningfully engage with their local communities while making a positive impact. This course emphasizes the importance of civic responsibility, social justice, and empathy as students engage in service projects and initiatives. Through hands-on experiences, students will collaborate with community organizations, nonprofits, and local initiatives to address pressing social issues and

enhance the well-being of others. Projects may include volunteering at homeless shelters, participating in environmental clean-up efforts, organizing food drives, or tutoring and mentoring underserved populations. Community Service encourages students to develop a deeper understanding of social issues, cultivate empathy and compassion, and build valuable leadership and teamwork skills. Additionally, students can reflect on their experiences, explore the root causes of social problems, and brainstorm innovative solutions. By participating in Community Service, students fulfill their civic duties and develop a sense of civic pride and responsibility. They gain a broader perspective of the world and become empowered to advocate for positive change in their communities and beyond. This course promotes a lifelong commitment to service and civic engagement, preparing students to be active and responsible members of society.

CAPSTONE - Project-Based Learning Assessment

CAPSTONE is a dynamic course designed to allow students to demonstrate their mastery of knowledge and skills through project-based learning assessment. This culminating experience enables students to integrate and apply the knowledge they have gained throughout their academic journey in a real-world context. Throughout the course, students will engage in an immersive, project-based learning experience, tackling complex, interdisciplinary challenges that require critical thinking, creativity, collaboration, and problem-solving skills. Working in teams or individually, students will identify a significant problem or topic of interest, conduct research, and design and implement a project to address or explore it. Projects in CAPSTONE may vary widely, ranging from scientific research studies and engineering prototypes to social advocacy campaigns and artistic endeavors. Regardless of the project's focus, students will follow a structured process of inquiry, planning, implementation, and reflection guided by faculty mentors. The course culminates in a final presentation or exhibition where students showcase their projects to peers, teachers, and community members. This presentation allows students to articulate their findings, demonstrate their skills, and reflect on their learning journey. CAPSTONE encourages students to think critically, communicate effectively, and apply their knowledge and skills to real-world problems. By engaging in authentic, project-based learning experiences, students develop the confidence, competence, and resilience needed to succeed in college, careers, and civic life. This course is a capstone to students' academic experiences, preparing them to be lifelong learners and contributing members of society.

Independent Study

Independent Study enables students to engage in personalized learning experiences tailored to their interests, goals, and learning styles. This course empowers students to take ownership of their education and delve into topics in depth under the guidance of a faculty mentor. Students will create and carry out a self-directed project or research study aligned with their academic interests and aspirations throughout the course. They will develop a detailed plan that outlines their goals, objectives, methodologies, and timelines, demonstrating their ability to set and accomplish academic goals independently. Students will frequently meet with their assigned mentor to receive guidance, feedback, and support as they advance through their independent study project. Independent Study encourages students to build self-direction, curiosity, and a lifelong passion for learning. By engaging in self-directed inquiry and exploration, students develop essential skills such as time management, research proficiency, and intellectual curiosity, preparing them for success in higher education, careers, and beyond. This course offers students a platform to pursue their passions, deepen their understanding, and make meaningful contributions to their areas of interest.

Achieving High School Mastery: Courses, Scope, and Sequence

PS Code	SCED Code	Grade	Category	Course Title	Credit
TBD	TBD	9-12	Community Service	Determined by Team	0.25
TBD	TBD	12	CAPSTONE - Project-Based Learning Assessment	Determined by Team	0.25
QCCP4101	19258	9-12	Independent Study	Determined by Team	0.25

Uniquely Tailored Courses

At Farmington Valley Diagnostic Center (FVDC), our focus is on holistic student development by providing a nurturing and adaptable learning environment that meets individual needs. FVDC is not intended to operate as a comprehensive high school; therefore, we do not offer a complete range of courses. Instead, our approach utilizes the strengths of our partner districts to ensure students receive a well-rounded education.

These uniquely tailored courses often involve collaboration with our partner districts, which may include resources and support such as district staff involvement for monitoring and guidance. We employ creative and flexible methods to cater to the diverse needs of our students. For example, students might attend their local high school for certain courses, have work from a specific class sent to FVDC for a tutoring model, or utilize virtual courses.

Through this collaborative approach, students gain the necessary opportunities to grow academically, socially, and emotionally. By working closely with our partner districts, FVDC can provide specialized programs that help students overcome past challenges and reach their educational goals in a supportive and flexible environment. For more information about creating a uniquely tailored course, please contact the FVDC Program Director.

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