QUINEBAUG MIDDLE COLLEGE

Program of Studies

2026 -2027



WELCOME



A Note from Ted Keleher

Principal of Quinebaug Middle College

Welcome to Quinebaug Middle College High School! Our school is located on the campus of CT State Community College at Quinebaug Valley in Danielson, CT.

Students at QMC benefit from a small and personalized learning environment where student choice and voice matter. Students have the opportunity to choose their own learning pathway, which will guide their learning experience throughout their high school careers. In addition, we take the time to get to know all of our students, and all of their work to create a strong and supportive environment where all students can succeed.

QMC students not only prepare for college but will experience college firsthand! Students in the 10th, 11th, and 12th grades take courses at CT State Community College free of charge in addition to their high school coursework. This gives QMC students a valuable head start on their college careers!

Take some time to learn more about our school through our website at www.eastconn.org/qmc. In addition, please feel free to contact QMC at any time for more information, to visit our campus, or to learn about the application process.

Thank you,

Ted Keleher
Principal





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Contact Information

School Address

742 Upper Maple Street
Danielson, CT 06239

Website

www.eastconn.org/qmc

Main Office	860-932-4100
Attendance Line	860-932-4202
Principal	860-932-4137
Nurse	860-932-4117
School Social Worker	860-932-4164
School Counselor	860-932-4101
Family and Community Liaison	860-455-3997
Main Office Fax	860-932-4950

Find us on social media





Mission & Vision

The Mission of Quinebaug Middle College

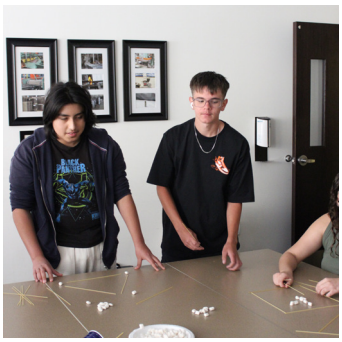
Quinebaug Middle College empowers students to actively contribute to their learning, community, and future through an authentic, personalized early college experience rooted in the core values of Inspiration, Kindness, and Respect. We are dedicated to providing each student with a supportive, inclusive environment where they build strong relationships, engage in rigorous coursework, and are mentored to become leaders of their learning and life.

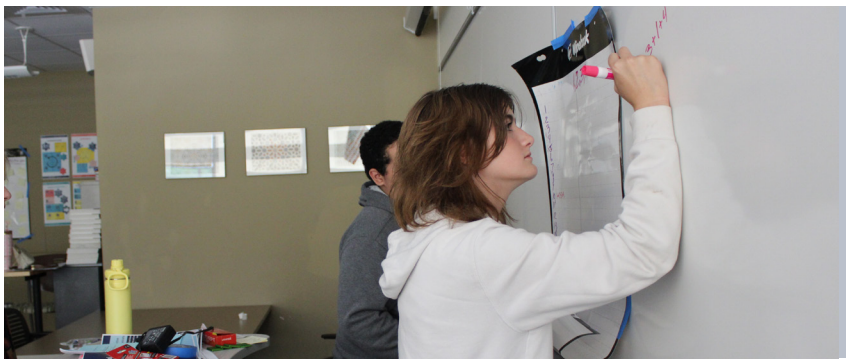
To enact the mission,

- Early, direct access to CT State Community College Quinebaug Valley's campus, plus the financial support for students to take dual-credit college courses and earn transferable credits toward post-secondary degrees and training;
- A democratic learning community fostering active participation in meaningful, service-oriented, school-wide civic engagement within a diverse learning environment that embraces a global worldview, and the founding core values of Inspiration, Kindness, and Respect;
- A competency-based curriculum rooted in college and career-oriented pathways that employs project-based learning experiences for students to learn, practice, and demonstrate the relevant, transferable skills outlined in the EASTCONN Portrait of the Graduate;
- A staff committed to holding an unwavering belief in every student's capacity for success and who cultivates a collaborative approach to learning that is an iterative process driven by the pursuit of excellence.









The Vision for Quinebaug Middle College

Quinebaug Middle College students are empowered to be their most authentic, capable selves who actively pursue academic, career, and community leadership opportunities to accomplish their goals and positively shape the trajectory of their lives.

Core Values *& Beliefs*

Inspiration, kindness, and respect are the fundamental principles of QMC. Our democratic learning community offers opportunities to build self-confidence and academic success through responsible choice-making, personal wellness, critical thinking, and social and civic responsibility.

The learning community of QMC believes that:

- All members are learners first, who work together to create dynamic, sustainable relationships grounded in Inspiration, Kindness, and Respect;
- All students achieve at high levels when they actively contribute to their learning, take ownership of their choices, engage in meaningful service, and act as responsible, respectful community members;
- Educational experiences should be authentic, personalized, competency-based, and rooted in rigorous, college- and career-oriented pathways aligned to the EASTCONN Portrait of the Graduate;
- A democratic learning environment that values diverse perspectives fosters critical thinking, civic engagement, and intellectual and emotional growth;
- Early, direct access to CT State Community College at Quinebaug Valley empowers students to see themselves as college-capable scholars with the confidence and support to pursue higher education and career pathways.

The learning community of QMC is committed to:

- Educating the whole person; intellectually, physically, emotionally, and socially; through a supportive and inclusive environment;
- Creating and maintaining respectful, collaborative relationships among all members of the community;
- Fostering active participation in civic engagement and service-oriented learning within a diverse, globally minded community;
- Maintaining a safe, stable setting in which students build strong relationships, develop leadership skills, and practice meaningful learning experiences;
- Individualizing academic, personal, and emotional supports to ensure every student has access to rigorous learning and mentorship;
- Sustaining effective, meaningful collaboration with CT State Community College at Quinebaug Valley to expand early college and dual-credit opportunities.

Code of Ethics

The Code of Ethics was established in 2008 by the student community at QMC. The code was reviewed and approved by the school's Leadership Team and Governance Board. Students are required to abide by the general rules and responsibilities of students attending the college, as outlined in the CT State Community College at Quinebaug Valley Student Handbook.

In the QMC Code of Ethics, three primary values held by the QMC community are articulated:

1. **Respect for others**, and appreciation for the diverse perspectives, skills, talents, abilities, and contributions of all members of the learning community;
2. **Acceptance and demonstration of personal responsibility** in keeping the school, campus, and community a safe and attractive place to learn; and,
3. **Commitment to learning** and to building one's personal assets, talents, strengths, and abilities.

Code of Ethics: Written and Approved by Students on September 5, 2008:

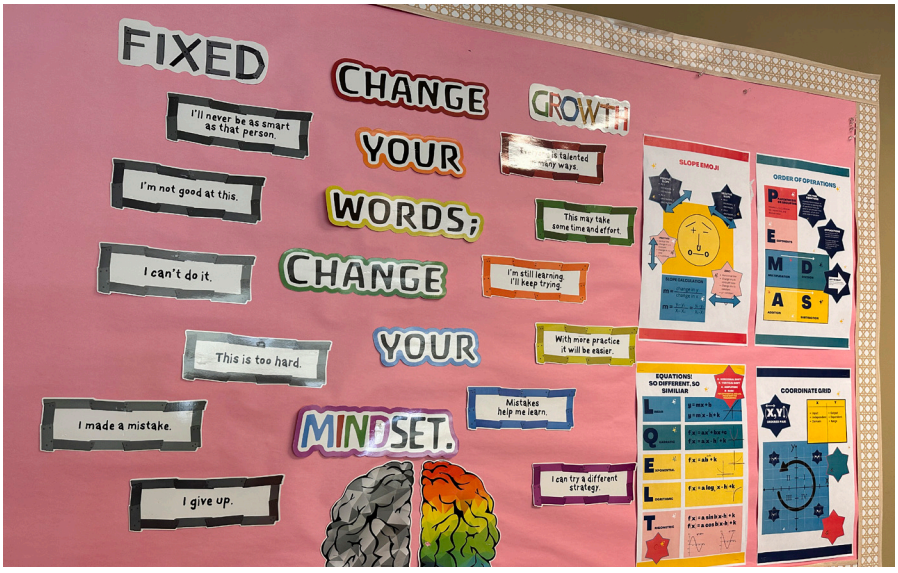
- Students will have input into the decision-making process and classroom rules.
- All people should be treated equally with respect.
- Dress should be appropriate but allow for individual expression.
- All students should come to class ready to learn.
- Each member's individuality should be recognized and respected.
- Members of the learning community will follow all laws and rules at CT State Community College at Quinebaug Valley and EASTCONN's school policies.



Teaching *& Learning Philosophy*

As an EASTCONN Magnet High School, QMC students become personally responsible and resilient self-directed learners who collaborate and communicate effectively to contribute to their communities as informed critical thinkers, effective problem-solvers, and creative innovators. To support students in their personal and academic growth toward this Portrait of a Graduate, QMC provides a personalized, competency-based learning experience.







EASTCONN's Portrait of a Graduate (POG) reflects EASTCONN magnet schools' collective vision for student success. The vision is our declaration of - and blueprint for - what it means for our students to be college, career, and life-ready.

POG standards are identified and incorporated into all courses to shape student experiences and learning outcomes.

EASTCONN
PORTRAIT OF A GRADUATE



EASTCONN Graduates are Self-Directed

- Set goals
- Monitor and direct their own learning
- Ask for help when needed
- Have a growth mindset by reflecting on learning experiences and applying insights to future learning
- Are self-motivated
- Learn how to learn

EASTCONN Graduates are Personally Responsible and Resilient

- Act responsibly with the interest of the larger community in mind
- Demonstrate personal integrity, honesty, and ethical behavior
- Persevere to accomplish difficult tasks and overcome academic challenges and personal barriers in order to meet goals
- Are flexible and adaptable in varying circumstances
- Incorporate feedback effectively



EASTCONN Graduates are Collaborative

- Respect and value diverse perspectives
- Conduct themselves in a respectable and professional manner
- Exercise flexibility and compromise to accomplish common goals
- Leverage the group to create new ideas and increase innovation and quality of work
- Assume shared responsibility

EASTCONN Graduates are Effective Communicators

- Articulate thoughts and ideas effectively, using oral, written and non-verbal communication skills in a variety of forms and contexts
- Engage in active listening and respectful discourse
- Use multiple media and technologies for effective communication
- Know how to judge their effectiveness and assess impact



EASTCONN Graduates are Informed Critical Thinkers

- Ask questions
- Collect, assess and analyze evidence, arguments, claims and beliefs
- Analyze, evaluate and synthesize information from multiple points of view
- Reason effectively

EASTCONN Graduates are Effective Problem-Solvers

- Identify, define and solve authentic problems and essential questions
- Research and innovate to lead to better solutions
- Reflect critically on learning experiences, processes, and solutions

EASTCONN Graduates are Creative Innovators

- Use a wide range of idea-creation techniques
- Elaborate, refine, analyze and evaluate their own ideas, in order to improve and maximize creative efforts
- Demonstrate originality and inventiveness in their work
- View failure as an opportunity to learn

Our Grading Philisophy

Mastery = Credit
What You Need to Know

- Grades communicate what students **know and can do**, not how many points they've earned.
- Students earn credit when their work demonstrates **Mastery** or higher on course standards.

How a Course Grade is Calculated

Mastery Level	Description	Course Credit
Exemplary (E)	Consistently works to exceed mastery-level expectations, with no standards below Mastery. Demonstrates strong initiative and self-direction.	✅ Yes
Mastery (M)	Work meets expectations on most standards; none below Progressing. Shows solid understanding.	✅ Yes
Progressing (P)	Some standards meet Mastery, but not most. Needs more practice and feedback.	❌ No
Beginning (B)	Work shows limited understanding of standards.	❌ No
Insufficient Evidence (IE)	Not enough work submitted to assess learning.	❌ No

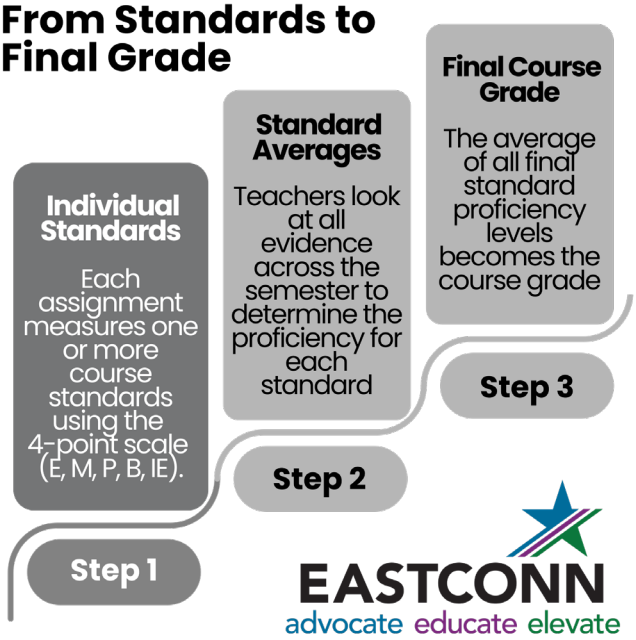
Students are assessed multiple times on each standard. A student's grade for a standard is based on their consistent demonstration of a proficiency level on it.

This is often shown through a summative assessment, but teachers may also consider evidence of Mastery from formative assignments when appropriate.

HOW TO GET THERE

- **Practice through formative tasks** (classwork, drafts, reflections).
- **Use feedback** from teachers to revise and improve.
- **Show what you know** on summative tasks.
- **Revise** if mastery isn't yet met; learning is ongoing!
- **Stay proactive**, communicate before deadlines if you need an extension.

From Standards to Final Grade



EASTCONN
advocate educate elevate

Early College Access

Quinebaug Middle College is based on a research-supported educational model that provides high school students with early access to college courses. Access to higher education while in high school has been shown to substantially improve the likelihood of students:

- Striving for high achievement while in high school.
- Going to college and persevering through to earning a postsecondary degree or certification—often in less time than their peers.

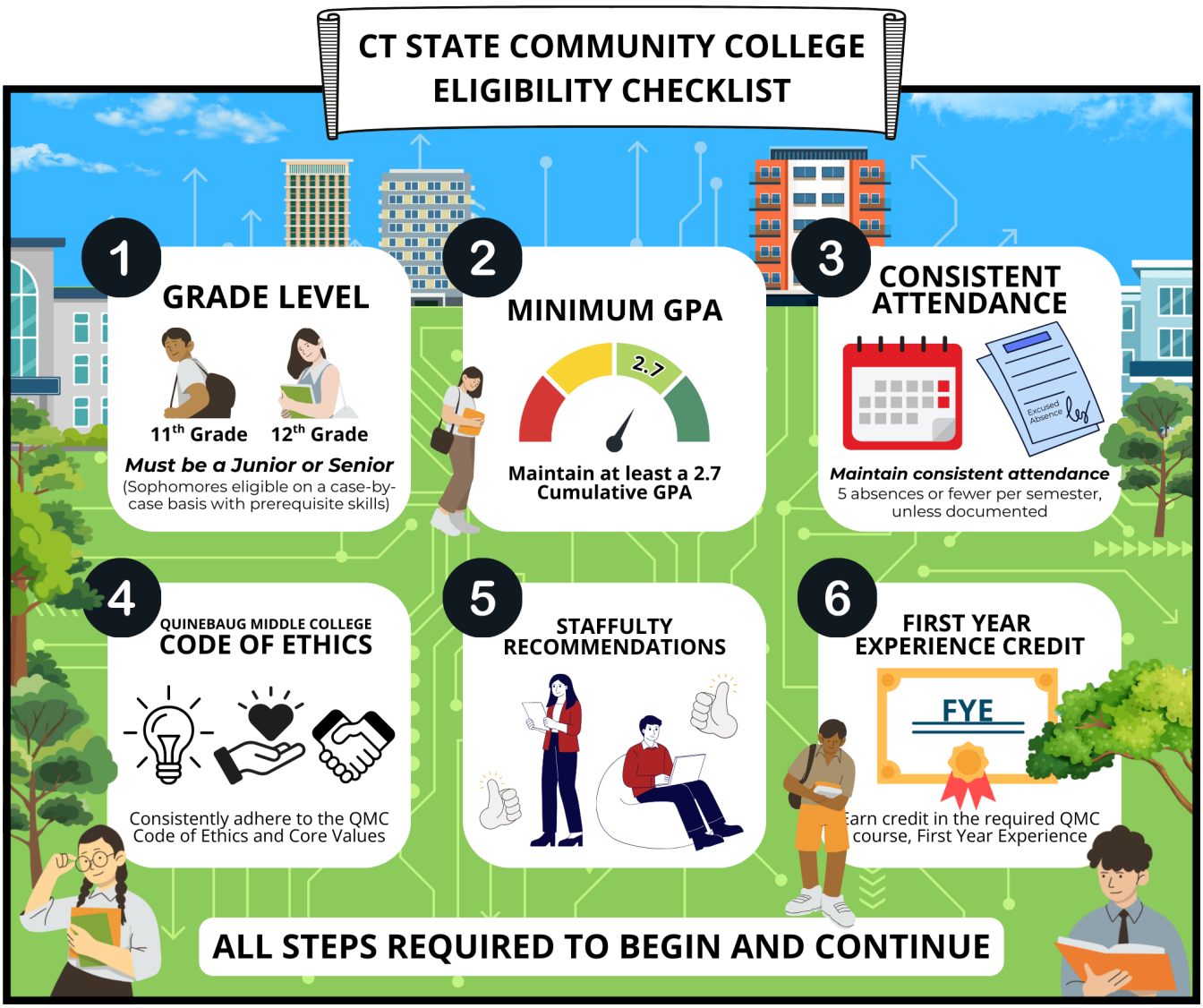
Students who participate in this dual-enrollment model (where they are enrolled in both high school and college courses) have shown to:

- Reduce the likelihood of having to take non-credit preparatory classes in college.
- Save time and money on their college education and career training.

QMC's location on the Quinebaug Valley campus of CT State Community College, and its alignment with the college's daily schedule, remove both transportation and scheduling challenges that high school students may face in other settings when trying to access early higher education. When demonstrating both academic and social/emotional readiness, QMC students can access college coursework by:

- Directly enrolling in CT State Community College (CSCC) courses both on the Quinebaug Valley campus and online at any CSCC campus.
- Accessing UCONN Early College Experience (ECE) courses and CSCC courses taught at QMC by certified high school faculty.





Note: some CSCC courses require an assessment for placement (i.e. GPA requirement, writing or math assessment)

Direct Enrollment College Access Options

Grade	**Early College Experience** 24 Potential College Credits	**College Head Start** 36-40 Potential College Credits *Requires Administration Approval*	**Full Associates Degree** 69 Potential College Credits *Requires Administration Approval*
9	All 8 classes at QMC	All 8 classes at QMC	All 8 classes at QMC
10	All 8 Classes at QMC	1-2 QV Spring Courses	1-2 QV Spring Courses
11	4 Classes at QMC & 4 at QV	4 Classes at QMC & 4 at QV	Self-Pay Summer 4 Classes at QMC & 4 at QV
12	4 Classes at QMC & 4 at CT State	**Running Start** All Classes at CT State	Self-Pay Winter/Summer **Running Start** All Classes at CT State

Pathways to Careers *& Possibilities*

Each QMC pathway represents a broad area of study that helps students explore interests, build transferable skills, and prepare for college and career options. The careers listed below are examples (not limits) of where each pathway can lead. Many students will pursue additional education, training, or specialization after high school.

Allied Health Pathway

Students interested in health, wellness, and patient care may pursue careers such as:

- Nurse (RN, LPN)
- Physician Assistant
- Medical Assistant
- Public Health Professional
- Physical or Occupational Therapy Assistant
- Phlebotomist
- Health Sciences Researcher Healthcare Administrator
- Sonographer
- Mental Health Professional/Socialworker
- Dental Hygenist
- Medical Lab Technician

Engineering & Computer Science Pathway

Students who enjoy problem-solving, technology, and innovation may pursue careers such as:

- Software Developer or Programmer
- Mechanical, Electrical, Civil, or Aeronautical Engineer
- Data Analyst
- Cybersecurity Specialist
- Robotics or Automation Engineer
- IT Systems Specialist

Manufacturing Pathway

Students interested in hands-on work, design, and production may pursue careers such as:

- Advanced Manufacturing Technician
- CNC Machinist
- Quality Control Specialist
- Automation or Mechatronics Technician
- Supply Chain or Operations Manager
- Engineering Technologist

Business Leadership Pathway

Students interested in entrepreneurship, finance, management, and organizational leadership may pursue careers such as:

- Business Owner or Entrepreneur
- Financial Analyst
- Marketing or Brand Manager
- Human Resources Specialist
- Operations or Logistics Manager
- Sales or Business Development Professional
- Bookkeeper
- Accountant

Education Pathway

Students interested in teaching, mentoring, and learning sciences may pursue careers such as:

- Elementary, Middle, or High School Teacher
- Special Education Teacher
- Instructional Coach
- Curriculum Designer
- Youth Program or Community Educator
- Childcare Provider
- Teachers' Aid
- Nanny/Au Pair

Liberal Arts Pathway

Students interested in communication, creativity, and critical thinking may pursue careers such as:

- Writer or Journalist
- Lawyer or Legal Advocate
- Political Scientist or Policy Analyst
- Photographer or Multimedia Artist
- Museum or Cultural Organization Professional
- Graduate or Professional School Scholar
- School Counselor or Psychologist
- Scientist
- Mathematician
- Historian
- Translator

Early College *Academic Plans*

Pathway-Aligned Transfer & Acceleration Options



Quinebaug Middle College offers a set of **Early College Academic Plans** that outline recommended four-year course sequences for students across all pathways. These plans are designed to support each pathway's area of study while providing a strong liberal arts foundation and clear opportunities for early college credit.

Each academic plan integrates QMC coursework with dual-enrollment options, ensuring students meet graduation requirements while progressing toward college-level expectations. In addition to core academics, the plans intentionally embed experiential learning opportunities, such as service learning, committee involvement, job shadowing, and Senior Project reflection to support college readiness, career exploration, and student agency.

By following an Early College Academic Plan, students are prepared to:

- Pursue a **CT-State Liberal Arts & Sciences (A.A.)** degree, or
- Transfer to a **four-year college or university** to earn a B.A. or B.S. aligned with their chosen pathway.

Allied Health
Health Career Pathway Certificate
College Head Start Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• First Year Experience • Physical Science • Algebra II • Themes in Literature **or** American Literature • Health
2	1	QMC	• World Literature **or** Nonfiction Literature • Functions, Stats, and Trigonometry To take in the Fall • First Year Experience *(if not taken Year 1)* • Biology *Requires QMC Physical Science* To take in the Spring • Chemistry
		QMC CCP	• Investigations in Healthcare Careers
		CT State	To take in the Spring • CCS 1001 College and Career Success *Requires QMC First Year Experience*
Additional QMC Graduation Requirements RECOMMENDED TO TAKE IN YEARS 1 THROUGH 3			• U.S. History • Civics • PE • Drawing & Design I • Spanish I • Spanish II • 1 additional English • 2 additional Humanities • 1 additional Math • Service Learning • Capstone Reflection Completed in year 4
3	4	CT State	• ENG 1010 Composition I • MATH 1200 Statistics *required for RN program admissions* **or** • MATH 1600 College Algebra *recommended for pre-med pathway interest* *Requires MATH1010 Intermediate Algebra or placement by exam* • BIO 1210 General Biology I *Must be eligible for ENG1010 & MATH 1010 & Completed QMC Chemistry* **or** • BIO 1111 Cell Biology *Must be eligible for ENG1010 & Completed QMC Biology* *If not required to take MATH 1010, can elect additional CT-State course*
4	4	CT State	• BIO 2111 Anatomy & Physiology I *to take in the Fall* • BIO 2112 Anatomy & Physiology II *to take in the Spring* • CHEM 1210 General Chemistry I **or** PHYS 1100 Introductory Physics • PSY 1011 General Psychology I
Additional CT-State Coursework WITHIN THE LPN/RN PROGRAM			• SOC1001 Principles of Sociology • ENG1020 Composition II • PSY2001 Lifespan Development • CT-State Arts & Humanities Elective
Pathway Experiences			• Medical Terminology • Northeast CT Healthcare Career Expo (CT-State) • Day Kimball Summer Junior volunteer program • Join HOSA (Health Occupation Students of America) • CRP/First Aid Certification • EMT Junior Volunteer

Where do I go from here?

- Employment
- Great option for employment while pursuing additional coursework

Allied Health
Health Career Pathway Certificate
w/ Introduction to Biology and Concepts of Chemistry Option
College Head Start Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• First Year Experience • Physical Science • Algebra II • Themes in Literature **or** American Literature • Health
2	2	QMC	• World Literature **or** Nonfiction Literature • Functions, Stats, and Trigonometry To take in the Fall • First Year Experience *(if not taken Year 1)* • Biology *Requires QMC Physical Science* To take in the Spring • Chemistry
		QMC CCP	• Investigations in Healthcare Careers
		CT State	To take in the Spring • CCS 1001 College and Career Success *Requires QMC First Year Experience*
Additional QMC Graduation Requirements Recommended to take in Years 1 through 3			• Civics • PE • Drawing & Design I • Spanish I • Spanish II • 1 additional English • 3 additional Humanities • 1 additional Math • Service Learning • Capstone Reflection Completed in year 4
3	4	CT State	*To take in the Fall* • BIO 1005 Intro to Biology *Must be eligible for ENG 1010 and MATH 1010* • MATH 1010 Intermediate Algebra *required for Concepts of Chemistry* *To take in the Spring* • ENG 1010 Composition I • CHEM 1110 Concepts of Chemistry
4	4	CT State	• BIO 2111 Anatomy & Physiology I *to take in the Fall* • BIO 2112 Anatomy & Physiology II *to take in the Spring* • PSY 1011 General Psychology I • MATH 1200 Statistics *required for RN program admissions* **or** • Additional CT-State elective
Additional CT-State Coursework within the LPN/RN program			• SOC 1001 Principles of Sociology • ENG 1020 Composition II • PSY 2001 Lifespan Development • CT-State Arts & Humanities Elective
Pathway Experiences			• Medical Terminology • Northeast CT Healthcare Career Expo (CT-State) • Day Kimball Summer Junior volunteer program • Join HOSA (Health Occupation Students of America) • CRP/First Aid Certification • EMT Junior Volunteer

Where do I go from here?

- Apply to the CT-State RN selective admission program
- Requires attending CT-State Selective Admissions informational session
- Apply to the CT-State Occupational Therapy Assistant (A.S.)
- Requires completion of Cell Biology and General Psychology I by the fall semester of senior year.
- Requires attending an Occupational Therapy information session
- Apply to the CT-State Veterinary Technology program
- Pursue CT-State Medical Laboratory Technician (A.S.)
- Pursue CT-State Health Information Technology-Data Management (A.S.)
- Requires Statistics, so follow the RN Healthcare track
- Pursue CT-State Clinical Coding Certificate
- Pursue CT-State Dental Hygiene (A.S.)
- Pursue CT-State Health Science (A.S.)
- Pursue CT-State Diagnostic Medical Sonography (A.S.)
- Pursue CT-State Exercise Science (A.S.)

Allied Health
Phlebotomy Technician Certificate
Early College Experience Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• First Year Experience • Physical Science • Themes in Literature **or** American Literature • Health
2	1	QMC	• First Year Experience *(if not taken Year 1)* • Biology *Requires QMC Physical Science* • World Literature **or** Nonfiction Literature
		QMC CCP	• Investigations in Healthcare Careers
Additional QMC Graduation Requirements Recommended to take in Years 1 through 3			• Civics • PE • Drawing & Design I • Spanish I • Spanish II • 2 additional English • 3 additional Humanities • 4 Math • 1 additional Science • Service Learning • Capstone or Reflection Completed in year 4
3 & 4	5	CT State	• MDAS 1025 Medical Terminology *Must be eligible for ENG 1010* • PHLB 1001 Techniques of Phlebotomy *completion by Fall of senior year* • PHLB 1072 Concepts of Specimen Processing *completion by Fall of senior year* • HLTH 1070 Medical Law and Ethics *Must be eligible for ENG 1010* • PHLB 2095 Phlebotomy Practicum *Requires completion of PHLB 1001 and PHLB 1072*
Pathway Experiences			• Northeast CT Healthcare Career Expo (CT-State) • Day Kimball Summer Junior volunteer program • Join HOSA (Health Occupation Students of America) • CRP/First Aid Certification • EMT Junior Volunteer

Where do I go from here?

- Employment
- Great option for employment while pursuing additional coursework

Engineering & Computer Science
Engineering Science
College Head Start Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• First Year Experience • Physical Science • Algebra 1 • Algebra 2 • Themes in Literature **or** American Literature • Intro to Computer Science
2	1	QMC	• World Literature **or** Nonfiction Literature • Geometry • Functions, Stats, and Trig • World Literature **or** Nonfiction Literature To take in the Fall • First Year Experience *(if not taken Year 1)* • Biology *Requires QMC Physical Science* To take in the Spring • Chemistry *Requires QMC Biology*
		CT State	To take in the Spring • CCS 1001 College and Career Success *Requires QMC First Year Experience*
Additional QMC Graduation Requirements Recommended to take in Years 1 through 3			• Civics • PE • Drawing & Design I • Spanish I • Spanish II • 2 additional Humanities • 4 Math • 1 additional Science • Service Learning • Capstone or Reflection *Completed in year 4*
3	4	CT State	• ENG 1010 Composition I • MATH 1010 Intermediate Algebra or • MATH 1600 College Algebra Requires *MATH1010 Intermediate Algebra* or placement by exam* • PHIL 1101 Ethics • Additional CT-State course or elective if placing into MATH 1600
4	4	CT State	To take in the Fall • MATH 1610 Pre-Calculus • CHEM 1210 General Chemistry I To take in the Fall • EGR 1110 Introduction to Engineering • ENG 1020 Composition II and Literature **or** • ENG 1080 Composition II: Technical Writing and Presentations
Additional CT-State Coursework within the Engineering Science program			• MATH 2600 Calculus I • Elective HISX Historical Knowledge • Elective BHEL Behavioral Science • PHYS 1100 Introductory Physics • BIO 1210 General Biology I *(Biomedical / Biomechanical)* • CHEM 1220 General Chemistry II *(Biomedical, Biomechanical, Environmental, Chemical)* • BIO 1220 General Biology II *(Civil, Environmental)* • CAD 1330 2D CAD *(AutoCAD) (Civil, Mechanical)*
Pathway Experiences			• Robotics Service Learning • Manufacturing Career Expo

Where do I go from here?

- Pursue CT-State Engineering Science (A.S.)
- Pursue B.S. in Engineering at a 4-year institution

Engineering & Computer Science
Cybersecurity Certificate
Early College Experience Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• First Year Experience • Physical Science • Algebra I **or** Algebra II • Themes in Literature **or** American Literature
2	1	QMC	• First Year Experience *(if not taken Year 1)* • Biology *Requires QMC Physical Science* • Algebra 2 *(if not taken in Year 1)* • World Literature **or** Nonfiction Literature • Geometry **or** Functions, Stats, and Trigonometry • English Elective
Additional QMC Graduation Requirements Recommended to take in Years 1 through 3			• Civics • PE • Drawing & Design I • Spanish I • Spanish II • 2 additional English • 3 additional Humanities • Financial Literacy • Service Learning • Capstone Reflection Completed in year 4
3	4	QMC	• Functions, Statistics, and Trigonometry *(if not taken in Year 2)* • Chemistry
		CT State	• CST 1221 Networking I • CYS 2111 Network Security *Choose two courses from:* • CSC 1203 Python Fundamentals • CST 1141 Linux System Administration • CST 2222 Networking II *Requires CST 1211 Networking*
4	4	CT State	• CST 2222 Networking II *(take in the Fall if not taken in Year 3)* • CYS 2131 Computer Forensics and Networking Intrusions *Requires CST 1211 Networking I* • CYS 2151 Ethical Hacking & Pen Testing 1 *Requires CST 1211 Networking I* Remaining required course not completed in Year 3: • CSC 1203 Python Fundamentals • CST 1141 Linux System Administration
Additional CT-State Coursework within the Computer Science AS program			• MATH 1600 PreCalculus (or other MATH) • CSC 1211 Java 1 *(Requires MATH 1600 level)* • ENG 1010 Composition 1 • CCS 1001 College & Career Success • COMM 1301 Public Speaking
Pathway Experiences			• STEM Club • Job shadow experience

Where do I go from here?
- Pursue CT-State Computer Science (A.S.)
- Pursue B.S. in Cybersecurity or Computer Science at a 4-year institution

This certificate begins to prepare students for common security certification exams such as:
- CompTIA Network+
- CompTIA Linux+
- CompTIA Security+
- Computer Hacking Forensic Investigator (CHFI)
- Penetration Testing and Ethical Hacking (CEH)
- ISC2's Systems Security Certified Practitioner (SSCP)

Manufacturing

Pursuit of Technology Studies: Adv. Manufacturing Machine Technology Certificate

College Head Start Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• First Year Experience • Physical Science • Algebra I **or** Algebra II • Themes in Literature **or** American Literature
2	1	QMC	• Biology *Requires QMC Physical Science* • Algebra II **or** QMC Geometry • Manufacturing Math To take in the Fall • First Year Experience *(if not taken Year 1)*
		CT State	To take in the Spring • MFG 1415 Safety in the Workplace • MFG 1470 Career Awareness for Manufacturing
Additional QMC Graduation Requirements RECOMMENDED TO TAKE IN YEARS 1 THROUGH 3			• Civics • PE • Health • Drawing & Design I • Spanish I • Spanish II • 2 additional English • Financial Literacy • 2 additional Science • 3 additional Humanities • Service Learning • Capstone Reflection Completed in year 4
3	4	CT State	• MFG 1415 Safety in the Workplace • MFG 1470 Career Awareness for Manufacturing • MFG 1424 Blueprint Reading • MFG 1478 CNC Fundamentals
4	Running Start 8	CT State	• MFG 1477 Machine Technology Fundamentals • MFG 1405 Manufacturing Math • MFG 2456 Advanced CNC • MFG 2477 Advanced Machine Technology • MFG 1453 Benchwork Choose 3 MFG electives from the following: • MFG 1010 Parametric Design *(SolidWorks)* • MFG 1414 Quality & Lean Principles **or** • MFG 1413 Principles of Quality Control • MFG 1420 Metrology • MFG 1425 Blueprint Reading 2 with GD &T • MFG 2405 Principles of CNC with Mastercam • MFG 2439 Geometric Dimension & Tolerancing *(GD&T)* • MFG 1400 Advanced Metrology with CMM *(Coordinate Measuring Machines)* • MFG 1409 Introduction to MasterCAM
Additional CT-State Coursework WITHIN THE ENGINEERING SCIENCE PROGRAM			• Choose 2 MFG electives to complete the certificate requirements • Choose from Technology Studies General Education Core courses
Pathway Experiences			• Robotics Service Learning • Manufacturing Career Expo • Manufacturing Program shadow experience

Where do I go from here?

- Complete 6 more credits to earn the Technology Studies: Adv. Manufacturing Machine Technology Certificate
- Pursue CT-StateTechnology Studies: Advanced Manufacturing Machine Technology Option 2 (A.S.)
  - Articulates with Central Connecticut State University or the University of Hartford B.S. degrees

Manufacturing

Pursuit of Technology Studies: Adv. Manufacturing Machine Technology Certificate

College Head Start Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• First Year Experience • Physical Science • Algebra I **or** Algebra II • Themes in Literature **or** American Literature
2	1	QMC	• Biology *Requires QMC Physical Science* • Algebra II **or** QMC Geometry • Manufacturing Math To take in the Fall • First Year Experience *(if not taken Year 1)*
		CT State	To take in the Spring • MFG 1415 Safety in the Workplace • MFG 1470 Career Awareness for Manufacturing
Additional QMC Graduation Requirements RECOMMENDED TO TAKE IN YEARS 1 THROUGH 3			• Civics • PE • Health • Drawing & Design I • Spanish I • Spanish II • 2 additional English • Financial Literacy • 2 additional Science • 3 additional Humanities • Service Learning • Capstone Reflection Completed in year 4
3	4	CT State	• MFG 1424 Blueprint Reading • MFG 1478 CNC Fundamentals • MFG 1477 Machine Technology Fundamentals • MFG 1405 Manufacturing Math
4	4	CT State	• MFG 2456 Advanced CNC • MFG 2477 Advanced Machine Technology • MFG 1453 Benchwork Choose one MFG elective from the following: • MFG 1010 Parametric Design *(SolidWorks)* • MFG 1414 Quality & Lean Principles **or** • MFG 1413 Principles of Quality Control • MFG 1420 Metrology • MFG 1425 Blueprint Reading 2 with GD &T • MFG 2405 Principles of CNC with Mastercam • MFG 2439 Geometric Dimension & Tolerancing *(GD&T)* • MFG 1400 Advanced Metrology with CMM *(Coordinate Measuring Machines)* • MFG 1409 Introduction to MasterCAM
Additional CT-State Coursework WITHIN THE ENGINEERING SCIENCE PROGRAM			• Choose 2 MFG electives to complete the certificate requirements • Choose from Technology Studies General Education Core courses
Pathway Experiences			• Robotics Service Learning • Manufacturing Career Expo • Manufacturing Program shadow experience

Where do I go from here?

- Complete 6 more credits to earn the Technology Studies: Adv. Manufacturing Machine Technology Certificate
- Pursue CT-StateTechnology Studies: Advanced Manufacturing Machine Technology Option 2 (A.S.)
  - Articulates with Central Connecticut State University or the University of Hartford B.S. degrees

Business Leadership
Accounting Certificate
Early College Experience Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• Physical Science • Algebra I **or** Algebra II • Themes in Literature **or** American Literature
2	0	QMC	• First Year Experience *(if not taken Year 1)* • Algebra II *(if not taken Year 1)* • English Elective • Functions, Statistics, and Trigonometry *Requires QMC Algebra II* *Recommended: QMC Financial Algebra if the student wants support in preparing for BFIN 1100 Personal Finance (Year 2 or Year 3)*
Additional QMC Graduation Requirements Recommended to take in Years 1 through 3			• Civics • PE • Health • Drawing & Design I • Spanish I • Spanish II • 2 additional English • 1 additional Math • 2 additional Science • 3 additional Humanities • 2 additional STEM *(one as a Financial Literacy requirement)* • Service Learning • Capstone Reflection Completed in year 4
3	3	CT State	• ACCT 1130 Principles of Financial Accounting • BFIN 1100 Personal Finance *(elective - counts as QMC Financial Algebra requirement)* • BUSN 1100 Introduction to Business *(elective)*
4	3	CT State	• ACCT 1170 Principles of Managerial Accounting • ACCT 1250 Accounting Applications • ACCT 2410 Federal Taxes I
Additional CT-State Coursework within the Business AS Degree tracks			• CCS 1001 College and Career Success • ENG 1010 Composition I • MATH 1200 Statistics I
Pathway Experiences			• QMC Leadership Committee • Josten's Renaissance Leadership Service Learning • Job Shadow

Where do I go from here?

- Pursue an Accounting AS degree, a BS degree at a four-year institution
- Pursue additional coursework to complete the Bookkeeping Certificate and sit for the licensure exam
- Pursue employment as an accounting clerk or accounts payable/receivable specialist

Business Leadership
Bookkeeping Certificate
Early College Experience Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• Physical Science • Algebra I **or** Algebra II • Themes in Literature **or** American Literature
2	0	QMC	• First Year Experience *(if not taken Year 1)* • Algebra II *(if not taken Year 1)* • English Elective • Functions, Statistics, and Trigonometry *Requires QMC Algebra 2*
Additional QMC Graduation Requirements Recommended to take in Years 1 through 3			• Civics • PE • Health • Drawing & Design I • Spanish I • Spanish II • 2 additional English • 1 additional Math • 2 additional Science • 3 additional Humanities • 2 additional STEM *(one as a Financial Literacy requirement)* • Service Learning • Capstone Reflection Completed in year 4
3	3	QMC	• Functions Statistics, and Trigonometry *(if not taken in Year 2)*
		CT State	• ACCT 1130 Principles of Financial Accounting • BUSN 1100 Introduction to Business • BUSN 2100 Business Communications
4	3	CT State	• BUSN 1150 Business Software Applications • ACCT 1250 Accounting Applications Additional Business Elective Required • Recommended: ACCT 1234 Certified Bookkeeper Review *Requires ACCT 1130*
Additional CT-State Coursework within the Business AS Degree tracks			• BFIN 1100 Personal Finance *(dual-enrollment for QMC Financial Literacy)* • CCS 1001 College and Career Success • ENG 1010 Composition I
Pathway Experiences			• QMC Leadership Committee • Josten's Renaissance Leadership SL • Job Shadow

Where do I go from here?

- Sit for the American Institute of Professional Bookkeepers licensure exam
- Pursue Quickbooks Pro certification
- Pursue employment as a bookkeeper
- Pursue an AS or BS degree in Accounting or a related field

Business Leadership
Business Administration Certificate - Management
Early College Experience Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• Physical Science • Algebra I **or** Algebra II • Themes in Literature **or** American Literature
2	0	QMC	• First Year Experience *(if not taken Year 1)* • Algebra II *(if not taken Year 1)* • English Elective • Functions, Statistics, and Trigonometry *Requires QMC Algebra II* *Recommended: QMC Financial Algebra if the student wants support in preparing for BFIN 1100 Personal Finance (Year 2 or Year 3)*
Additional QMC Graduation Requirements Recommended to take in Years 1 through 3			• Civics • PE • Health • Drawing & Design I • Spanish I • Spanish II • 1 additional English • 2 additional Math • 2 additional Science • 3 additional Humanities • 2 additional STEM • Service Learning • Capstone Reflection Completed in year 4
3	3	CT State	• ENG 1010 Composition I Elective • BFIN 1100 Personal Finance *(elective - counts as QMC Financial Literacy requirement)* **or** BUSN 1100 Introduction to Business *(elective)* • BMGT 2020 Principles of Management *Requires ENG 1010 Composition I*
4	3	CT State	• BMGT 2200 Human Resource Management *Requires ENG 1010 English Comp I and BMGT 2020 Principles of Business Management* • BENT 2180 Entrepreneurship • BUSN 2150 Global Business Requires ENG 1010 Composition I
Additional CT-State Coursework within the Business AS Degree tracks			• CCS 1001 College and Career Success • MATH 1200 Statistics I
Pathway Experiences			• QMC Leadership Committee • Josten's Renaissance Leadership Service Learning • Yearbook Service Learning • Job Shadow

Where do I go from here?

- Pursue entry-level positions in management and administrative careers
- Pursue an AS or BS degree in management or a related field

Business Leadership
Business Administration Certificate - Marketing
Early College Experience Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• Physical Science • Algebra I **or** Algebra II • Themes in Literature **or** American Literature
2	0	QMC	• First Year Experience *(if not taken Year 1)* • Algebra II *(if not taken Year 1)* **or** • Functions, Statistics, and Trigonometry *Requires QMC Algebra 2* • Nonfiction Literature **or** World Literature Recommended: QMC Financial Algebra if the student wants support in preparing for BFIN 1100 Personal Finance* (Year 2 or Year 3)
Additional QMC Graduation Requirements Recommended to take in Years 1 through 3			• Civics • PE • Health • Drawing & Design I • Spanish I • Spanish II • 1 additional English • 2 additional Math • 2 additional Science • 3 additional Humanities • 2 additional STEM • Service Learning • Capstone Reflection Completed in year 4
3	3	CT State	• ENG 1010 Composition I • BMKT 2010 Principles of Marketing 1 Business Elective • BFIN 1100 Personal Finance *(elective - counts as QMC Financial Literacy requirement)* **or** • BUSN 1100 Introduction to Business
4	3	CT State	1 Business Elective • BFIN 1100 Personal Finance *(elective - counts as QMC Financial Literacy requirement)* **or** • BUSN 1100 Introduction to Business or Graphic Arts (GRA) elective 2 Additional BMKT electives aligned with student interest: • Students should search the CT State course catalogue for possible BMKT options.
Additional CT-State Coursework within the Business AS Degree tracks			• CCS 1001 College and Career Success
Pathway Experiences			• QMC Leadership Committee • Josten's Renaissance Leadership Service Learning • Yearbook Service Learning • Job Shadow

Where do I go from here?

- Pursue AS or BS degree in a related field

Business Leadership
Business Administration Certificate - Entrepreneurship
Early College Experience Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• Physical Science • Algebra I **or** Algebra II • Themes in Literature **or** American Literature
2	0	QMC	• First Year Experience *(if not taken Year 1)* • Algebra II *(if not taken Year 1)* **or** • Functions, Statistics, and Trigonometry *Requires QMC Algebra 2* • Nonfiction Literature **or** World Literature
Additional QMC Graduation Requirements RECOMMENDED TO TAKE IN YEARS 1 THROUGH 3			• Civics • PE • Health • Drawing & Design I • Spanish I • Spanish II • 1 additional English • 1 additional Math • 2 additional Science • 3 additional Humanities • 2 additional STEM • Service Learning • Capstone Reflection Completed in year 4
3	3	CT State	• ENG 1010 Composition I • ACCT 1130 Principles of Financial Accounting • BENT 2180 Entrepreneurship
4	4	CT State	• BENT 2170 Small Business Management and Growth • BMKT 2010 Principles of Marketing • ACCT 1130 Principles of Financial Accounting • ACCT 1250 Accounting Applications I Requires ACCT 1130 Principles of Financial Accounting • Additional CT State Business Elective Recommended: • BUSN 2310 Business Law I *Requires ENG 1010 Composition I* **OR** • BUSN 2340 Legal Environment of Business
Additional CT-State Coursework WITHIN THE BUSINESS AS DEGREE TRACKS			• CCS 1001 College and Career Success • BFIN 1100 Personal Finance *(counts as QMC Financial Literacy requirement)* • BUSN 1100 Introduction to Business *(elective)*
Pathway Experiences			• QMC Leadership Committee • Josten's Renaissance Leadership SL • Job Shadow

Where do I go from here?

- Pursuit of small business ownership
- Pursuit of an AS or BS degree in Entrepreneurship or a related field

Business Leadership
Business Administration Certificate - Finance
College Head Start Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• First Year Experience • Physical Science • Algebra I **or** Algebra II • Themes in Literature **or** American Literature
2	0	QMC	• First Year Experience *(if not taken Year 1)* • Algebra II *(if not taken Year 1)* • Functions, Statistics, and Trigonometry *Requires QMC Algebra 2* • Nonfiction Literature **or** World Literature
Additional QMC Graduation Requirements Recommended to take in Years 1 through 3			• Civics • PE • Health • Drawing & Design I • Spanish I • Spanish II • 1 additional English • 2 additional Science • 1 additional Humanities • 2 additional STEM • Service Learning • Capstone Reflection Completed in year 4
3	4	CT State	• ENG 1010 Composition I *(recommended to take in the Fall)* • ACCT 1130 Principles of Financial Accounting • MATH 1200 Statistics I • ECON 1002 Microeconomics *Requires ENG 1010 (recommended to take in the Spring)*
4	Running Start 8	CT State	*To take in the Fall* • BFIN 2100 Principles of Finance *Requires ECON 1002, ACCT 1130, MATH 1200 can be concurrent* • ECON 1001 Macroeconomics *Requires ENG 1010* *To take in the Spring* • BFIN 1250 Principles of Banking • BFIN 2300 Investment Principles *Requires BFIN 2100* • BFIN 2350 International Finance *Requires BFIN 2100*
Additional CT-State Coursework within the the Business AS Degree tracks			Full-time Running Start students can add any additional coursework toward an AS degree or additional core coursework that fulfills requirements when transferring to a four-year program.
Pathway Experiences			• QMC Leadership Committee • Josten's Renaissance Leadership Service Learning • Yearbook Service Learning • Job Shadow

Where do I go from here?

- Pursue an entry-level position in Finance
- Pursue an AS or BS degree

Education
Early Childhood Education Certificate
College Head Start Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• Physical Science • Algebra I **or** Algebra II • Themes in Literature **or** American Literature
2	1	QMC	• First Year Experience *(if not taken Year 1)* • Algebra II *(if not taken Year 1)* • Nonfiction Literature **or** World Literature
		CT State	• ENG 1010 Composition *(recommended to take in the Spring)*
Additional QMC Graduation Requirements RECOMMENDED TO TAKE IN YEARS 1 THROUGH 3			• Civics • PE • Health • Drawing & Design I • Spanish I • Spanish II • 2 additional Math • 1 Financial Literacy • 2 additional Science • 2 additional Humanities • 2 additional STEM • Service Learning • Capstone Reflection Completed in year 4
3	3	CT State	*To take in the Fall* • ECED 1001 Intro to Early Childhood Education • ECED 1002 Foundations in Child Development To take in the Spring • ECED 2331 Language Development and Emergent Literacy in Young Children *Requires ECED 1001 and ECED 1002* • ECED 2515 Exceptional Learners *Requires ECED 1001 and ECED 1002*
4	3	CT State	Three additional courses in ECED, EDUC, or SPED electives (9 college credits) Recommended courses aligned with Early Childhood Education Associate's Degree: • EDUC 2010 Foundations of U.S. Education • PSY 1011 General Psychology I • ENG 1020 Composition II and Literature
Additional CT-State Coursework WITHIN THE EDUCATION AS DEGREE TRACKS			• CCS 1001 College and Career Success • MATH 1004 Math for Elementary Education **or** • MATH 1100 Quantitative Reasoning
Pathway Experiences			• QMC Leadership Committee • Social Justice SL • Josten's Renaissance Leadership SL • Program site visits required in ECED 1001 Intro to Early Childhood Ed

Where do I go from here?

- Pursue CT-State Early Childhood Education (A.S.)
- Pursue employment in a childcare, daycare, or preschool setting as a:
  - Childcare Provider (centers or home)
  - Teacher's Aide
  - Nanny
  - Au Pair
  - Aftercare Teacher
  - Preschool Teacher (AS degree may be required for some positions)

Education
Pathway to K-12 Teaching
College Head Start Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	· Physical Science · Algebra I **or** Algebra II · Themes in Literature **or** American Literature
2	1	QMC	· First Year Experience *(if not taken Year 1)* · Algebra II *(if not taken Year 1)* · Functions, Statistics, and Trigonometry *Requires QMC Algebra 2* · Nonfiction Literature **or** World Literature
		CT State	· CCS 1001 College and Career Success (recommended to take in the Spring)
Additional QMC Graduation Requirements Recommended to take in Years 1 through 3			· Civics · PE · Health · Drawing & Design I · Spanish I · Spanish II · Financial Literacy · 2 additional Humanities · 2 additional Science · 2 additional STEM · Service Learning · Capstone Reflection Completed in year 4
3	4	QMC	To take in the Fall · Functions, Statistics, & Trigonometry *(if not taken Year 2)*
		CT State	To take in the Fall · ENG 1010 Composition To take in the Fall or Spring · MATH 1004 Math for Elementary Education (if K-8 Track) **or** · MATH 1100 Quantitative Reasoning (9-12 Track) *Requires math placement* · ECED 1002 Foundations in Child Development *Requires ENG 1010 eligibility* · PSY 1011 General Psychology 1 *Requires ENG 1010 eligibility*
4	4	CT State	Additional recommended courses aligned with Pathway to Teaching Careers Associate's Degree: · ENG 1020 Composition II and Literature · COMM 1301 Public Speaking **or** · COMM 1010 Introduction to Mass Communications · ECED 1501 Exceptional Learners
Additional CT-State Coursework within the the Business AS Degree tracks			Additional course options under the Pathway to Teaching Careers AS degree
Pathway Experiences			· QMC Leadership Committee · Social Justice Service Learning · Josten's Renaissance Leadership Service Learning · Yearbook Service Learning · Job shadowing

Where do I go from here?

- Pursue CT-State Pathway to Teaching Careers - Elementary Education (A.S.)
- Pursue CT-State Pathway to Teaching Careers - Secondary Education (A.S.)
- Pursue a B.A. or B.S. degree in Education at a four-year institution
- Pursue employment in a childcare, daycare, or preschool setting as a:
  - Childcare Provider (centers or home)
  - Teacher's Aide
  - Nanny
  - Au Pair
  - Aftercare Provider
  - Summer Camp Employment

Liberal Arts
Personalized Transfer Track
College Head Start Track

Year	Potential College Courses		Recommended Courses
1	0	QMC	• Physical Science • Algebra I **or** Algebra II • Themes in Literature **or** American Literature • World History
2	1	QMC	• First Year Experience *(if not taken Year 1)* • Algebra II *(if not taken Year 1)* **or** • Functions, Statistics, and Trigonometry *Requires QMC Algebra 2* • English Elective • US History **or** UCONN ECE U.S. History • Biology • Spanish 1 *(if not taken in Year 1 and if not taking alternative language through CT-State)*
		CT State	• CCS 1001 College & Career Success *Can be taken in Year 3 if under the Early College Experience College Access Options*
Additional QMC Graduation Requirements Recommended to take in Years 1 through 3			• PE • Health • Drawing & Design I • 1 Financial Literacy • 2 additional STEM • Service Learning • Capstone Reflection Completed in year 4
3	4	QMC	• Chemistry • Functions, Statistics, and Trigonometry *(if not taken in Year 2)* • Spanish 2 *(if not taken in Year 2)* • UCONN ECE POLS 1602 Comparative Politics *Meets Civics requirement* **OR** • UCONN ECE POLS 1402 International Relations
		CT State	• ENG 1010 Composition *Placement required* • COMM 1301 Public Speaking **OR** • COMM 1302 Interpersonal Communication • MATH 1100 Quantitative Reasoning *Placement required* • 1 additional CT-State course option under the Liberal Arts & Sciences degree aligning with future major
4	4	QMC	• Spanish 3 *(if not taken in Year 3)* • UCONN ECE POLS 1602 Comparative Politics *(if not taken in Year 3) Meets Civics requirement* **OR** • UCONN ECE POLS 1402 International Relations *(if not taken in Year 3)*
		CT State	• ENG 1020 Composition II & Literature **OR** • ENG 1030 Composition II & Non-fiction Texts • MATH 1100 Quantitative Reasoning *(If not taken in Year 3) Placement required* • 2 additional CT-State course options under the Liberal Arts & Sciences degree aligning with future major
Additional CT-State Coursework within the Liberal Arts AS/AA Degree tracks			• BFIN 1100 Personal Finance *(Meets QMC Financial Literacy requirement & is an open elective course on the degree)*
Pathway Experiences			• Service Learning opportunities that align with future major • Committee Involvement • Job Shadow

Where do I go from here?

- Pursue CT-State Liberal Arts & Sciences (A.A.)
- Pursue B.A. or B.S. at a 4-year institution

Dual Credit *Courses*

Students will earn 1 high school graduation credit for each dual-enrollment course listed below only if they receive transferable credit, which is earned by achieving a grade of C or higher. This list is not all inclusive.



Vocational/Career Credit

- QMC/CCP Investigations in Healthcare Careers
- CCS 1001 College and Career Success
- All CYS or CST courses
- All MFG courses
- All BUSN or ACCT courses
- All BENT or BMGT courses
- All BFIN courses
- ECED 1001 Intro to Early Childhood Education
- COMM 1010 Introduction to Mass Communication
- COMM 1301 Public Speaking

English Credit

- ENG 1010 Composition I
- ENG 1020 Composition II and Literature
- ENG 1080 Composition II: Technical Writing and Presentations

Science/STEM Credit

- BIO 1005 Intro to Biology
- BIO 1111 Cell Biology
- BIO 1210 General Biology I
- BIO 2111 Anatomy and Physiology I
- CHEM 1110 Concepts of Chemistry
- CHEM 1210 General Chemistry I
- PHYS 1100 Introductory Physics

Humanities Credit

- PSY 1011 General Psychology I
- PHIL 1101 Ethics
- ECON 1001 Macroeconomics
- ECON 1002 Microeconomics

Math/STEM Credit

- MATH 1200 Statistics
- MATH 1600 College Algebra
- MATH 1010 Intermediate Algebra
- MATH 1004 Math for Elementary Education
- MATH 1100 Quantitative Reasoning
- MATH 1200 Statistics
- MATH 1610 PreCalc
- ACCT 1130 Principles of Financial Accounting
- MFG 1405 Manufacturing Math
- All MATH, EGR courses

STEM Credit

- All PHLB courses
- All CYS, CST, or CSC courses
- All MFG courses
- ALL ENR courses

Financial Literacy

- BFIN1100 Personal Finance



Graduation *Requirements*



Science, Technology, Engineering, and Math Coursework 9 Total Credits	
Mathematics	4 credits *Starting with Class of 2027, 1 credit must be in financial literacy
Science	3 credits
STEM Electives	2 credits
Humanities Coursework 9 Total Credits	
English	4 credits *1 credit in Band 9/10 required to pursue credit in Band 11/12
Civics	1 credit *Can substitute CT State QV American Government or UCONN ECE Introduction to American Politics
Fine Art	1 credit
Additional Social Studies/ Fine Arts/English	3 credits *US History strongly recommended
Health, Wellness, and Career Coursework 4 Total Credits	
Physical Education	1 credit
Health	1 credit
Career and Life Skills Electives	2 credits
Additional Required Coursework	
World Language	2 credits *3 years in the same language strongly recommended to waive CT State requirements for World Language
Service Learning	1 credit (.25 credits per semester)
1 General Elective	1 credit
Senior Project	1 credit
Additional Requirements	
FAFSA Completion or FAFSA Waiver Per the Connecticut State Dept. of Education	

Four Year Plan

Course Selection Planning Sheet

HS CE = High School Credits Earned
CCE = College Credits Earned

Freshman Year

	Courses	HS CE	CCE
	Advisory		
S1			
S2			
	Service Learning		
	Total Credits Earned		

Sophomore Year

	Courses	HS CE	CCE
	Advisory		
S1			
S2			
	Service Learning		
	Total Credits Earned		

Junior Year

	Courses	HS CE	CCE
	Advisory		
S1			
S2			
	Service Learning		
	Total Credits Earned		

Senior Year

	Courses	HS CE	CCE
	Advisory		
S1			
S2			
	Service Learning		
	Total Credits Earned		

Senior Project

Portrait of the Graduate Mastery Experience

The QMC Senior Project meets the State of Connecticut's requirement that all high school students complete a mastery-based diploma assessment. This culminating experience empowers students to lead their own learning and prove their proficiency in the durable skills outlined in the school's Portrait of the Graduate.

There are two ways for students to complete their Senior Project:



1. College Course & Reflection

Complete a college-level course (above and beyond high school credit requirements) and a reflective project. This project connects your QMC and college experiences to the skills defined in the Portrait of the Graduate.

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2. Career Pathway Project

Research a company of personal interest and prepare for a mock interview at the company. During the interview, you will demonstrate your growth in the Portrait of the Graduate skills by drawing on your specific experiences at QMC.

As a QMC graduation requirement, all students must demonstrate mastery of the skills assessed throughout the project. Students who consistently meet all project deadlines and perform at an Exemplary level can earn the "Senior Project of Distinction" honor. While this is an independent project, students may seek support from any staffulty member as they work through the project's various steps.

Course *Offerings*

QMC reserves the right to withdraw or add courses, and to offer courses in terms other than those designated in the listing.

S.T.E.M. (Science, Technology, Engineering, and Mathematics)

Science

Astronomy

1 credit; Science/STEM; elective

Prerequisites: Biology

In this course, students will explore Earth's place in the universe, how the solar system formed, and the history of our planet. They will learn about the four forces behind the Universe, the Big Bang Theory, and how the matter that makes up the Earth was formed. Students will also study how the sun's behavior affects life on Earth. Engineering and technology are important parts of the course, as they help us gather and analyze data that support our understanding of how the solar system and the universe were formed.

Biology

1 credit; required

Prerequisites: Physical Science

Biology is an NGSS-aligned course that focuses on the study of living organisms and their interactions with each other and their environments. It explores the structures, functions, growth, origin, evolution, and distribution of life forms. This field encompasses various topics, from DNA and cellular processes to the broader study of ecosystems and the impact of human activity on biodiversity. Through biology, students learn about the fundamental principles that govern life and develop skills in observation, experimentation, and analysis.



Chemistry

1 credit; highly recommended

Prerequisites: Biology, Algebra 2 can be taken concurrently

Chemistry is an NGSS-aligned course that focuses on the study of matter and the changes it undergoes. It focuses on understanding the properties, composition, and structure of substances, as well as the energy involved in chemical processes. This field explores how atoms and molecules interact and combine to form new materials, and it examines reactions that occur in both natural and artificial environments. Through studying chemistry, students gain skills in analytical thinking, problem-solving, and applying scientific principles to real-world situations, helping them to understand everything from the air we breathe to the products we use daily. Consistent in-person attendance in this course is essential because of the lab work required.

Environmental Science

1 credit; Science/STEM; elective

Prerequisites: Biology

Environmental Science is a course that explores how Earth's natural systems work and how human activities affect them. Students will learn about the science behind natural events and the cycles of resources like water, air, and energy. They will also study how we use these resources and the problems of using them too much or incorrectly. Students will work on real-life investigations, look at past and present environmental issues, and learn about the challenges scientists are trying to solve today.

Forensics

1 credit: Science/STEM; elective

Prerequisites: Biology

Forensic Science is the application of science (Chemistry, Physics, and Biology) to the criminal and civil laws that are enforced by police agencies in a criminal justice system. This course includes the investigation of fingerprinting, fiber analysis, arson, trace evidence analysis, toxicology, blood spatters analysis, and forensic anthropology. Students are taught the proper collection, preservation, and laboratory analysis of various samples.

Physical Science

1 credit; required

Prerequisites: Algebra I or Algebra 1A/1B

Physical Science is an NGSS-aligned course that introduces students to the fundamental principles governing our universe through the study of space and Earth systems. Throughout the year, students explore scientific phenomena such as nucleosynthesis, forces and motion, natural resources, and climate. Emphasis is placed not only on understanding core concepts, but also on developing essential scientific skills. Students learn to ask testable questions, design and carry out investigations, analyze and interpret data, and apply reasoning to draw evidence-based conclusions. By the end of the course, students are equipped with both the knowledge and critical thinking skills necessary for continued success in science.

Mathematics

Algebra 1

1 credit; required (may be taken in 8th grade)

Prerequisites: n/a

Students will enhance their numeric skills and develop their algebraic knowledge. Learning will occur through the development of conceptual understanding. Real-life problems will be utilized to make the content relevant. Topics covered include: patterns, solving equations, function notation,linear equations and systems of equations.

Algebra 1A

1 credit

Prerequisite: Teacher Recommendation

Algebra 1A is the first course in a two-part Algebra I sequence in which the full Algebra I curriculum is intentionally covered over two semesters rather than one to allow students to strengthen and enhance their foundational skills. The focus of this course is developing conceptual understanding of Algebra I topics through the use of manipulatives, visual representations, and structured problem-solving, building a strong mathematical foundation and confidence for continued success.

Algebra 1B



1 credit

Prerequisite: Successful Completion of Algebra 1A

Algebra 1B is the second course in the two-part Algebra I sequence, continuing the full Algebra I curriculum at a purposeful pace to ensure deep understanding of all Algebra I concepts. Emphasis remains on conceptual learning through manipulatives, visual models, and multiple representations, supporting students in strengthening foundational skills, developing procedural fluency, and preparing for Geometry and future advanced coursework.

Algebra 2

1 credit; Math

Prerequisite: Algebra 1

Students will build upon their understanding and knowledge from Algebra 1. Students will utilize real-life examples to explore the content in a meaningful way. Topics covered in Algebra 2 include: Algebra 1 review of linear equations, polynomials, quadratic equations and exponential equations.

Financial Algebra

1 credit; required

Prerequisite: Algebra 1, Algebra 2 recommended

This course engages students with real-world financial applications while maintaining deep mathematical rigor. Students will be required to use critical thinking skills in order to make responsible financial choices.

Functions, Statistics, & Trigonometry

1 credit; Math

Prerequisite: Algebra 2

This course presents topics from these three areas in a unified way to help students prepare for everyday life and future courses in mathematics; especially following CT State CC mathematics tracks (Intermediate Algebra*, College Algebra*, Statistics 1*, and Pre-calculus*). This course is strongly recommended before taking any mathematics coursework at CT State CC.

Geometry

1 credit; Math

Prerequisite: Algebra 1

This course provides students with the knowledge and tools necessary to apply an understanding of the attributes and relationships of geometrical objects in diverse contexts. Students will engage in hands-on experiences of geometric principles and relationships in real-world applications.

Math Foundations

0.5 credit: Math; Career and Life Skills elective

Prerequisite: Teacher Recommendation

This class is designed to help students build essential math skills needed for high school success. Focusing on foundational concepts such as basic arithmetic, fractions, decimals, and algebraic thinking, the course provides personalized support to strengthen students' understanding and confidence.

Humanities

English



American Literature

1 credit, English Grade 9/10

Prerequisite: n/a

This course features readings from American writers and provides students with opportunities for investigations in reading and writing. This course covers the Band 1 (Grade 9/10) English requirement.

English Foundations

0.5 credit, English; Career and Life Skills elective

Prerequisite: Teacher Recommendation

This class is designed to help students strengthen the foundational skills needed for high school English. Focusing on key areas such as grammar, vocabulary, reading comprehension, and writing basics, the course offers personalized support to improve understanding and communication.

Nonfiction Literature

1 credit, English Grade 11/12

Prerequisite: American Literature or Themes in Literature

This nonfiction course brings the world to life through vivid details, strong storytelling, and meaningful insight. Along the way, you'll practice drafting and revising your own work, discovering how great writing is shaped through thoughtful rewriting.

Themes in Literature

1 credit, English Grade 9/10

Prerequisite: n/a

This course develops critical reading and thinking skills by exploring literature's role as a cultural force. Students will examine texts to analyze the forces that shape our identity, including the impact of internal and external forces. Through analysis of various characters, students will uncover underlying motives for their actions and use this to build interpretations about the human condition.

World Literature

1 credit, English Grade 11/12

Prerequisite: American Literature or Themes in Literature

This course explores literature from around the world, focusing on the theme of Bildungsroman—the psychological and moral growth of a character from youth to adulthood. Students will read texts from North America and a country of their choice, examining the characters' experiences in their formative years of life. Through collaborative discussions, independent reflection, and student-led research and writing, the course will address both literary techniques and the cultural contexts of the works. This is a one-credit course for students prepared for Band 2 English standards.

UCONN ECE MAST 1200: Introduction to Maritime Culture*

1 credit; English or Social Studies college-level elective

Prerequisites: UCONN recommends 2 years of History and 2 years of English; QMC also requires that the two years of English include at least one Grade 11/12 English

UCONN describes this course as "A study of history and literature to understand the international maritime culture that links peoples, nations, economies, environments, and cultural aesthetics." This course explores the global maritime culture that connects nations, economies, environments, and cultures through history and literature. It examines the sea as a highway, source of food, arena for warfare, and stage for discovery, with a focus on maritime exploration, commerce, warfare, and transportation. Topics include international exploration, Vikings, folklore, whaling, seafaring life, piracy, and the impact of the maritime world on communities and cultures. Students earning a "C" or higher may earn 3 UCONN course credits.

UCONN ECE AMST 1201: Introduction to American Studies*

1 credit; English or Social Studies college-level elective

Prerequisites: UCONN recommends 2 years of History and 2 years of English; QMC also requires that the two years of English include at least one Grade 11/12 English

UCONN describes this course as "What is an American?" A multi-disciplinary inquiry into the diversity of American societies and culture." This interdisciplinary course explores the diversity of American societies and cultures through history, literature, art, music, technology, and popular culture. Designed as an introduction to a major in American Studies, it also benefits students in History, Literature, Art History, Communications, Business, Education, and other fields. The course centers on the question: "How have America's values transformed through its global interactions?" Students earning a "C" or higher in the course can accumulate 3 UCONN course credits.

Fine Arts & Design

Art Portfolio I

1 credit; Fine Arts elective

Prerequisites: Drawing and Design I and Drawing & Design II. However, if students are interested in focusing solely on graphic arts and photography, they may substitute Drawing and Design II for Graphic Design & Photography; they may also substitute through alternative means as approved by the course instructor.

The second highest level art course offered at QMC, Art Portfolio I, has been specifically designed for students interested in assembling an art portfolio of superior quality and craftsmanship. To be successful in this course, students must be highly self-directed and willing to invest one's time beyond the classroom in artmaking. Art history is explored via Art Investigations, where the students explore and critique a particular piece of art two (2) times. As this is an advanced-level class, the student choose the art piece and the artist for each Art Investigation, using college-level art history textbooks as resources. This course is offered to students during the Spring semester of their junior year.

Art Portfolio II

1 credit, Fine Arts elective

Prerequisites: Drawing and Design I and Drawing & Design II. However, if students are interested in focusing solely on graphic arts and photography, they may substitute Drawing and Design II for Graphic Design & Photography; they may also substitute through alternative means as approved by the course instructor.

The highest-level art course offered at QMC, Art Portfolio II, has been specifically designed for students interested in assembling an art portfolio of superior quality and craftsmanship. This portfolio is crafted and assembled to enter the portfolio in the annual Scholastic Art Awards. To be successful in this course, students must be highly self-directed and willing to invest one's time beyond the classroom in artmaking. Art history will be explored via Art Investigations, where the students explore and critique a particular piece of art two (2) times. As this is an advanced-level class, the student chooses the art piece and the artist for each Art Investigation using college-level art history textbooks as resources. This course is offered to students during the Fall semester of their senior year.



Drawing and Design I

1 credit; Fine Arts, required

Prerequisite: n/a

This course is an experiential voyage in creative arts and design. By completing weekly or bi-weekly assigned art projects, students learn and show proficiency in the National/Connecticut Core Arts Standards of; Creating, Presenting, Responding, and Connecting and the Connecticut Technology Education Standards for Computer-Aided Drafting and Design and Graphics Design and Technology. The assignments will be deeply rooted in the therapeutic arts serving as an additional benefit to overall academic success. Students will also have the opportunity to build and grow their ability to express their visual observations of artworks made by traditional fine art masters, modern-day practicing artists, and innovative designers via the completion of Art Investigations.

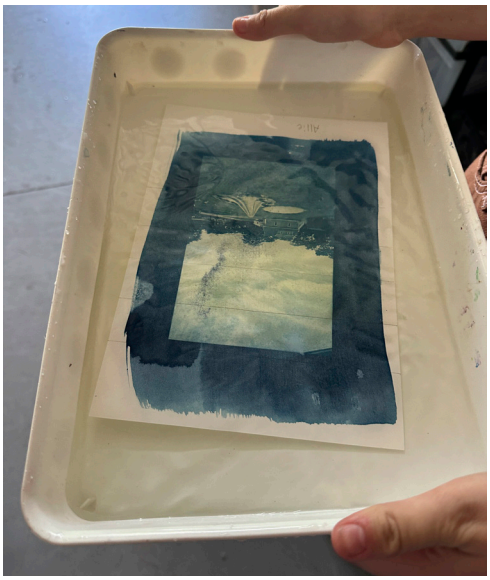


Drawing and Design II

1 credit, Fine Arts elective

Prerequisite: Drawing and Design I

A continuation and expansion of the basic themes learned in Drawing and Design I. The projects in DDII allow for increased choices in subject and medium by the student artists. There will be a mix of exposure to the world of fine art and design that will take each student on a journey through important moments and movements in Art and Design History. In completing Art Investigations, students will explore and critique a particular piece of art three (3) separate times. Sometimes the artwork and the artist are chosen for the student; other times, students will choose the artwork.



Graphic Design & Photography

1 credit; Fine Arts or STEM elective

Prerequisite: Drawing and Design I

In Photography and Graphic Design, students explore both the artistic/creative and technical aspects of graphic design and photography. The course begins with a basic introduction and history of photography and graphic design. Then, students discuss, in-depth, the role photography and visual design play in our daily lives. Students exit the class with the knowledge and tools to create visually pleasing photographs and graphic publications. Art history is explored via Art Investigations, where the students will explore and critique a particular piece of art three(3) times during this class. Sometimes the artwork and the artist are chosen for the student; other times, students will determine the artwork and artist.

Independent Study in Photography

1 credit; Fine Arts elective

Prerequisites: Drawing and Design I and Graphic Design & Photography; they may also substitute through alternative means as approved by the course instructor.

This self-directed course is available to seniors who have exhausted all other fine visual arts elective options. After choosing a concentration in Drawing, Painting, Graphic Design, or Photography, the instructor and student will select a series of five (5) skill-building exercises found in The Photographer's Playbook: 307 Assignments and Ideas Paperback (2014) by Jason Fulford or Draw It with Your Eyes Closed: The Art of the Art Assignment (2012) edited by Paper Monument, which will lead up to a separate and final five (5) piece portfolio showcasing either the depth or breadth of the scholars' studies in the arts. In addition, art history will be explored via Art Investigations. The students will explore and critique a piece of art four (4) times, with the artist being the author of the creative prompt the student has chosen to do for their four (4) skill-building activities.

Social Studies

African American/Black & Puerto Rican/Latino Studies

1 credit; Social Studies elective

Prerequisite: U.S. History and World History recommended

The course is an opportunity for students to explore accomplishments, struggles, intersections, perspectives, and collaborations of African American/Black and Puerto Rican/Latino people in the U.S. Students examine how historical movements, legislation, and wars affected the citizenship rights of these groups and how they, both separately and together, worked to build U.S. cultural and economic wealth and create more just societies in local, national, and international contexts. Coursework provides students with tools to identify historic and contemporary tensions around race and difference; map economic and racial disparities over time; strengthen their own identity development; and address bias in their communities.

Civics

1 credit, Social Studies; required

Prerequisite: U.S. History

In this course, students develop an understanding of the institutions of constitutional democracy and the principles and values upon which they are founded. Students work to develop the knowledge and skills necessary to participate as effective and responsible citizens.



United States History

1 credit, Social Studies; required

Prerequisite: n/a

In this course, students study American history from the Civil War era to the present through the perspective of those who have been traditionally marginalized. By analyzing primary sources and class discussion students learn how the definition of "American" has changed from the writing of America's founding documents to today, as well as how underrepresented groups have contributed to America's wars and economy throughout history.

World History

1 credit, Social Studies elective

Prerequisite: n/a

This course studies world history through three thematic units: **World Geography**, the **Enlightenment & Revolutions**, and the **World at War**. Throughout the semester, students will read primary sources, take notes, and work collaboratively to deepen their understanding of how the past and present shape the world in which they live today.

UCONN ECE HRTS 1007: Introduction to Human Rights*

1 credit; Social Studies college elective

Prerequisite: UCONN recommends successful completion of 2 Social Studies courses or consent of instructor; QMC also requires demonstrated mastery in First Year Experience and Civics. However, the Civics requirement may be waived at the instructor's discretion.

UCONN describes this course as "Exploration of central human rights institutions, selected human rights themes and political controversies, and key political challenges of contemporary human rights advocacy." This course introduces students to the foundations of human rights through an institutional and policy-based lens. Students examine how rights are defined, debated, protected, and violated in both domestic and international contexts. Through case studies of mass atrocity, genocide, and other human rights violations, students analyze the causes of human rights failure and evaluate strategies for prevention, accountability, and reform. Throughout the course, students consider the political, legal, and civic dimensions of contemporary human rights advocacy and reflect on their role as informed participants in advancing human dignity. Students earning a "C" or higher in the course can earn 3 UCONN course credits.

UCONN ECE HRTS 2200: Genocide Studies*

1 credit; Social Studies college elective

Prerequisites: UCONN recommends World History and 2 additional Social Studies courses, or instructor consent; QMC also requires demonstrated Mastery in Civics and First Year Experience; completion of UCONN ECE HRTS 1007: Introduction to Human Rights is strongly recommended

This course provides an interdisciplinary introduction to the study of genocide as a historical, legal, social, political, and conceptual phenomenon, including response, prevention, and commemoration efforts. Students earning a C or higher in the course can earn 3 UCONN course credits.

UCONN ECE MAST 1200: Introduction to Maritime Culture*

1 credit; Social Studies or English college elective

Prerequisites: UCONN recommends 2 years of History and 2 years of English; QMC also requires that the two years of English include at least one Grade 11/12 English

UCONN describes this course as "A study of history and literature to understand the international maritime culture that links peoples, nations, economies, environments, and cultural aesthetics." This course explores the global maritime culture that connects nations, economies, environments, and cultures through history and literature. It examines the sea as a highway, source of food, arena for warfare, and stage for discovery, with a focus on maritime exploration, commerce, warfare, and transportation. Topics include international exploration, Vikings, folklore, whaling, seafaring life, piracy, and the impact of the maritime world on communities and cultures. Students earning a "C" or higher may earn 3 UCONN course credits.



UCONN ECE AMST 1201: Seminar in American Studies*

1 credit; English or Social Studies college-level elective

Prerequisites: UCONN recommends 2 years of History and 2 years of English; QMC also requires that the two years of English include at least one Grade 11/12 English

UCONN describes this course as "What is an American?" A multi-disciplinary inquiry into the diversity of American societies and culture." This interdisciplinary course explores the diversity of American societies and cultures through history, literature, art, music, technology, and popular culture. Designed as an introduction to a major in American Studies, it also benefits students in History, Literature, Art History, Communications, Business, Education, and other fields. The course centers on the question: "How have America's values transformed through its global interactions?" Students earning a "C" or higher in the course can accumulate 3 UCONN course credits.

UCONN ECE POLS 1402: Introduction to International Relations*

1 credit; Social Studies, college elective

Prerequisite: UCONN recommends 1 year of History or Civics or instructor consent. QMC requires First Year Experience and demonstrated mastery in Civics.

UCONN describes this course as "The nature and problems of international politics."

Will Russia continue to act aggressively, putting the West further on alert? Can the Israelis and Palestinians find a two-state solution? Is the rise of China a threat? In this course, students explore these big questions, considering the context, cause, and consequences of these world issues. Students begin with developing an understanding of the leading international relations theories in order to assess real-world problems. Students earning a "C" or higher in the course can earn 3 UCONN course credits.

course credits.

UCONN ECE POLS 1602: Introduction to American Politics*

1 credit; Social Studies, college elective

Prerequisite: UCONN recommends 1 year of History or Civics or instructor consent. QMC requires First Year Experience; ECE US History students take this for an honors/college-level Civics experience instead of taking Civics.

UCONN describes this course as "Students analyze the organization and operation of the American political system." This course introduces students to American politics by examining contested arguments about democracy, rights, political behavior, and governing institutions. Rather than treating the American government as a set of settled facts or idealized structures, the course examines how political power is debated, exercised, constrained, and challenged in practice. Students earning a C or higher in this course can earn 3 UCONN course credits.

UCONN ECE HIST 1501: United States History to 1877*

1 credit; Social Studies, college elective

Prerequisite: UCONN recommends at least one year of a high school history course. QMC requires students to earn an M or higher in at least one high school history course.

UCONN describes this course as a course that "surveys political, economic, social, and cultural developments in American history through the Civil War and Reconstruction." Students earning a "C" of higher in the course can earn 3 UCONN course credits.

UCONN ECE HIST 1502: United States History Since 1877*

1 credit; Social Studies, college elective

Prerequisite: UCONN recommends at least one year of a high school history course. QMC requires students to earn an M or higher in at least one high school history course.

UCONN describes this course as a course that "Surveys political, economic, social, and cultural developments in American history from 1877 to the present." Students earning a "C" of higher in the course can earn 3 UCONN course credits.

Health, Wellness, and Career Skills

Health and Wellness

Health

1 credit, Health and Wellness, required

Prerequisite: n/a

Health class is designed to teach students how to set realistic goals for lifelong, healthy, and balanced living. A variety of topics are covered to help students understand how to make informed decisions, which leads to a mentally and physically healthy, active lifestyle. The class explores topics through a variety of media: lessons from the textbook, slide show presentations, articles from various periodicals, class discussions, individual and group projects, videos, and internet resources.



Physical Education (PE)

1 credit, Health and Wellness, required

Prerequisite: n/a

Physical Education focuses on lifetime fitness, and students learn common activities and sports that people continue to participate in from the teen years into adulthood. Students can expect stretching, fitness, recreation, skill development, experimenting with new games, sports and activities, relaxation, and fun. Safety, kindness, teamwork, cooperation, and group support are always expected during each class.

Career and Vocational Coursework

Academic Support

1 credit; Career and Life Skills elective

Prerequisite: Team Recommendation

This is a course designed to improve students' executive functioning skills, such as goal-setting and time management, and to provide support and intervention to help them achieve success in their other courses.

First Year Experience

1 credit, Career and Life Skills elective; required to take UCONN or CSCC coursework

Prerequisite: 2.7 GPA or higher (grades of Mastery and Exemplary) in current coursework

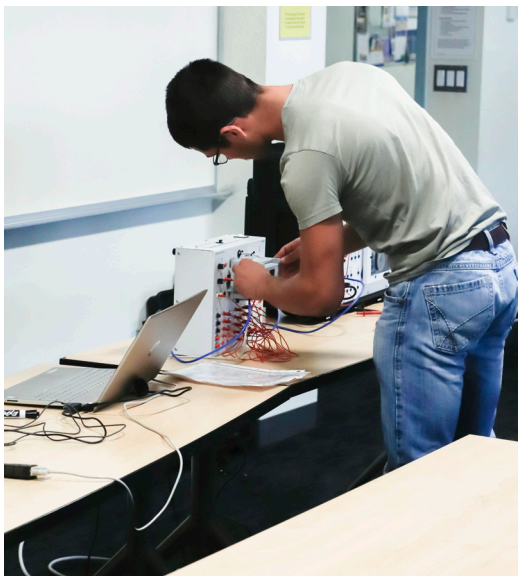
First-Year Experience is designed to support student development of academic work habits and higher-level thinking skills necessary to engage with rigorous coursework, including college-level texts and research-based assessments. Successful completion of this course is one of the prerequisites for a QMC student to meet before enrolling in college coursework at CSCC-QV and/or UCONN ECE courses.

Innovations in Manufacturing

1 credit; STEM elective or Career and Life Skills elective

Prerequisites: Recommended to be in 11th and 12th grade

In this discrete, STEM-integrated class, students experience the steps in the design and manufacturing process of a product. The curriculum focuses on market analysis, cost analysis, product design, innovation, the application of technology, collaboration with others, and communication with the public. Students develop their critical thinking skills by applying the engineering design process across multiple projects.



Introduction to Computer Science

1 credit; STEM elective or Career and Life Skills elective

Prerequisites: n/a

Introduction to Computer Science introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable curriculum that explores many of the foundational ideas of computing, so all students understand how these concepts are transforming the world we live in.

Manufacturing Math

1 credit; STEM elective or Career and Life Skills elective, required for Manufacturing pathway

Prerequisite: Algebra 1, Geometry recommended

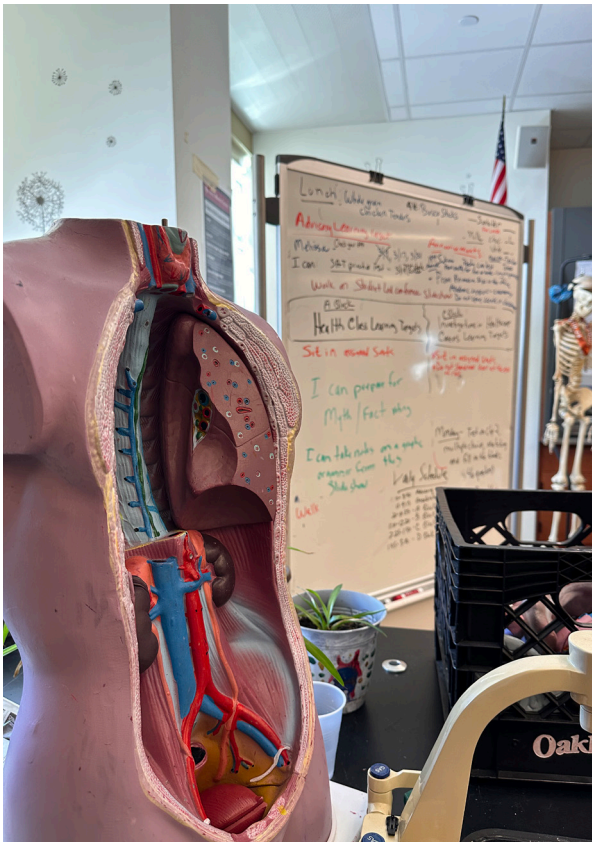
Emphasis is on building the mathematical skills in preparation for success in the manufacturing field. A study of fractional and decimal operations, ratios, proportions and percentages, conversion and use of customary and metric measurements as well as principals of geometry are studied. This course is a prerequisite for CT State Manufacturing Math II and CT State Blueprint Reading 1.

CSCC-QV CCP HLT103: Investigations in Health Careers*

1 credit; Career and Life Skills college-level elective

Prerequisite: Health

This CSCC-QV CCP course is designed to assist students in meeting the expectations of a career in health-related fields and provide a survey of the different types of healthcare careers. Students become familiar with the rigors of higher education and the specific skills needed to maximize the student's opportunities for academic and career success. The class provides exposure to a wide variety of information about careers and opens the minds of students to many unfamiliar career possibilities. Students research information from the course textbook, PowerPoint presentations, and YouTube videos about careers, partake in hands-on lab activities, and interact with guest speakers. Students who earn a "C" or higher can obtain 3 CSCC-QV credits.



UCONN ECE AH 2001: Medical Terminology*

1 credit; STEM or Career and Life Skills college-level elective

Prerequisites: UCONN requires successful completion of (or concurrent enrollment in) Biology, and instructor consent. QMC also requires Health (Mastery), CSCC-QV CCP Investigations in Health Care Careers (C or better)

UCONN describes this course as "Introduction and mastery of medical terminology through presentation of word roots, prefixes and suffixes. Disease processes, symptoms, diagnosis, and treatments that affect various body systems. Terminology associated with disease processes, symptoms, diagnosis, clinical procedures, laboratory tests, and treatments that affect various body systems." Emphasis in this course is on building a working medical vocabulary based on body systems. Students who earn a "C" or higher in this course may earn 2 UCONN course credits.

Additional Required Coursework

World Language

Spanish 1

1 credit, World Language, required

Prerequisite: n/a

Spanish is an introductory course designed to improve understanding, speaking, listening, and writing in Spanish at the novice level. Students acquire vocabulary, grammatical structures, language functions, and an appreciation for Hispanic culture through interactive activities, contextualized presentations, and varied media. This course is a prerequisite for Spanish 2.

Spanish 2

1 credit, World Language, required

Prerequisite: Spanish 1

Spanish 2 continues the development of reading, writing, listening, and speaking skills. The class focuses on all modes of communication to develop confidence and accuracy in skills while comparing the customs and culture throughout the Spanish-speaking world.

Spanish 3

1 credit, World Language, elective

Prerequisite: Spanish 2

Spanish 3 continues the development of reading, writing, listening, and speaking skills that students demonstrated in Spanish 2.

Career and Community Coursework

Senior Project

1 credit, required

Prerequisite: Senior status [18+ credits]

The QMC Senior Project meets the State of Connecticut's requirement that all high school students complete a mastery-based diploma assessment. This culminating experience empowers students to lead their own learning and prove their proficiency in the durable skills outlined in the school's Portrait of the Graduate. As a QMC graduation requirement, all students must demonstrate mastery of the skills assessed throughout the project. Students who consistently meet all project deadlines and perform at an Exemplary level can earn the "Senior Project of Distinction" honor. While this is an independent project, students may seek support from any faculty or staff member as they work through the project's various steps.

Service Learning

.25 credits per semester; required

Prerequisites: Application process for some Service Learning groups.

Students engage in community service through independent or group projects, applying their classroom learning to the planning and execution of real-world initiatives. They design projects based on the needs of various communities, including the QMC community, the CT State QV community, the town of Danielson, or their sending district. Examples of community service projects include the QMC Newspaper, Leadership, Garden and Nature Trail maintenance, and Our Worls on Film. Students are also encouraged to propose and coordinate new Service Learning opportunities, with support from a faculty advisor. Service Learning is a required course, held once a week on Fridays.

Grade 9 Advisory

.5 credits per semester; required

Prerequisites: n/a

Freshman Advisory supports students in their transition to high school by helping them develop the academic, organizational, and interpersonal skills needed for success at QMC. Through daily meetings, students learn about school expectations, the Portrait of the Graduate competencies, and the structures of the school community, including Town Meeting and Service Learning. The course emphasizes goal setting, academic progress monitoring, digital organization, and professional communication while introducing early college readiness skills. Students begin developing their Mastery-Based Transcript and Learner Profile, prepare for and lead their annual Student-Led Conference, and reflect on their strengths, interests, and goals as they build a strong foundation for success in high school and beyond.

Grade 10 Advisory

.5 credits per semester; required

Prerequisites: Sophomore status [6+ credits]

Sophomore Advisory continues to support students' academic, personal, and social development through the QMC Advisory program. Meeting daily, the course engages students in exploring social and emotional learning (SEL), civic responsibility, post-secondary pathways, and career opportunities to build readiness for a range of future outcomes. During the sophomore year, students focus on strengthening academic habits, developing a growth mindset, and identifying their character strengths while deepening their understanding of the Portrait of the Graduate competencies. Students also continue developing their Mastery-Based Transcript, reflect on their growth, and prepare for and lead their annual Student-Led Conference as they build greater independence and responsibility for their learning.

Grade 11 Advisory

.5 credits per semester; required

Prerequisites: Junior status [12+ credits]

Junior Advisory supports students during a critical year of preparation for their postsecondary pathways. Meeting daily, the course focuses on academic planning, goal setting, and college and career readiness. Students review transcripts and credit progress, refine SMART goals, analyze PSAT results, and prepare for standardized testing. Through guided activities, students explore postsecondary options—including two-year and four-year college pathways as well as alternative career routes—while developing professional materials such as resumes and accomplishment records. Students continue building their Mastery-Based Transcript, reflect on their progress within the Portrait of the Graduate competencies, and prepare for and lead their annual Student-Led Conference as they plan for senior year and life beyond high school.

Grade 12 Advisory

.5 credits per semester; required

Prerequisites: Senior status [18+ credits]

Senior Advisory supports students as they finalize their postsecondary plans and complete graduation requirements. Meeting daily, the course focuses on college and career readiness, including the college application process, scholarship searches, financial aid and FAFSA preparation, resume development, and professional interview skills. Students meet with their guidance counselor to review graduation credit requirements, refine postsecondary goals, and complete key milestones such as college essays, recommendation requests, and applications. Throughout the year, students also work on their Senior Project, reflect on their progress toward their mission statement and SMART goals, and prepare for postsecondary transitions. Seniors continue updating their Mastery-Based Transcript and lead their final Student-Led Conference while preparing for graduation and life beyond QMC.

Notes:

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