MCI Maine Central Institute

School of Schools Pathway Guide

Engagement
e**X**ploration
Passion
Esteem
Reasoning
Inclusion
Equity
Nurturing
Community
Empathy

Experience Maine

School of Math & Science

Aviation Pathway

Students interested in becoming a:

- Pilot
- Flight Instructor
- Astronaut
- And more!

Health Sciences Pathway

Students interested in becoming a:

- Registered Nurse
- Physical Therapist
- Surgical Technologist
- And more!

School of Arts & Humanities

Business & Marketing Pathway

Students interested in becoming a:

- Accountant
- Investment Banker
- Public Relations Manager
- And more!

Visual & Performing Arts Pathway

Students interested in becoming a:

- Actor
- Illustrator
- Designer
- And more!

Global Studies Pathway

Students interested in becoming a:

- Lawyer
- Journalist
- Political Lobbying
- And more!

School of Industry & Trades

Students interested in becoming a:

- Electrician
- Cosmetologist
- Executive Chef
- And more!

School of Nature

Students interested in becoming a:

- Environmental Scientist
- Adventure Guide
- Archeologist
- And more!

School of Engineering

Students interested in becoming a:

- Computer Engineer
- Chemical Engineer
- Architect
- And more!

MCI School of Exploration

(Traditional Diploma)

School of Math & Science

Students who enroll in the **School of Math & Science** are often STEM enthusiasts, as they are drawn to fields that include **science, technology, engineering and mathematics.** They typically appreciate logical thinking, problem-solving, and analytical approaches to understanding the world around them, potentially pursuing **careers in engineering, medicine, research and computer science**.

Students earn a total of 24 credits consisting of the following fields of study:

- **Science & Technology (4.5 credits)**
  - *Advanced course offerings include **AP Biology, AP Chemistry, AP Physics,** and more.*
- **Math (4 credits)**
  - *Advanced courses include **AP Calculus AB, AP Calculus BC, AP Statistics,** and more.*
- **Humanities (7 credits)**
- **Human Development (1.5 credits)**
- **Fine Arts (1 credit)**
- **World Language (2 credits recommended)**
- **6 Additional Elective Credits**

Pathways

Students who enroll in the School of Math & Science have the option to specialize their studies towards two different pathways:

Health Science Pathway

Students will engage in courses focused on the **human body, anatomy & physiology, biology, chemistry**, as well as other introductory health science classes covering **medical terminology, nutrition, and disease processes**, laying the foundation for further study in medical-related fields and helping students explore **potential careers in healthcare and biomedical sciences.**

Career paths may include Registered Nurse, Radiologic Technologists, Mental Health Counselor, Paramedic, Occupational Therapist, Surgical Technologists, and more!

Aviation Pathway

Students will prepare to take the Federal Aviation Administration (FAA) exam to earn their **Private Pilot Certificate**, which demonstrates theoretical proficiency required to continue towards earning the **Private Pilot License**. Courses will include topics such as: Introduction to unmanned Aircraft Systems, Introduction to Aviation, Private Pilot Ground Training and Aviation Weather.

Career paths may include Pilot / Co-Pilot, Air Traffic Control, Aeronautical Engineer, Flight Attendant, Flight Instructor, Astronaut and more!

School of Arts & Humanities

Students who enroll in the **School of Arts & Humanities** focus on academic disciplines like **literature, history, philosophy, art history, music, theater and languages**, which explore the human experience, culture, expression through critical analysis and interpretation. The value of an artisan humanities focus is that it **prepares you to think logically and creatively** about the world around us.

Students earn a total of 24 credits consisting of the following fields of study:

- **Humanities (9 credits)**
  - *Advanced course offerings include **AP Literature & Composition, AP U.S History, AP U.S Government & Politics,** and more.*
- **Math (4 credits)**
- **Science & Technology (3.5 credits)**
- **Human Development (1.5 credits)**
- **Fine Arts (2 credit)**
- **World Language (2 credits recommended)**
- **3 Additional Elective Credits**

Pathways

Students who enroll in the School of Arts & Humanities have the option to specialize their studies towards three different pathways:

Global Studies Pathway

Students will take courses that examine the **structure and functions of government, political systems, major political ideologies, current events, and civic engagement** to provide them with a foundation in understanding political processes, theories, and the impact of politics both nationally and internationally, while developing **critical thinking, debate, and informed decision-making skills.**

Career paths may include Law, Journalism, Campaign Management, Lobbying, and more!

Business & Marketing Pathway

Students will gain an understanding of business concepts, including **economics, marketing, accounting, management, and entrepreneurship.** They will develop skills in **data analysis, communication and critical thinking** to prepare them for further studies in the areas of business & finance as well as **marketing skills like targeting audiences and designing engaging content.**

Career paths may include Accounting, Financial Mangement, Investment Banking, and more!

Visual & Performing Arts Pathway

Students will take courses that develop their creative mediums, allowing each to **explore artistic expression through both visual creation and live performance.** These courses foster **imagination, collaboration, and personal voice** while building technical skills in areas such as drawing, painting, music, theater, and more. Students gain confidence and appreciation for the arts.

Career paths may include Acting, Illustrating, Graphic Design, Professional Dancer, and more!

School of Industry & Trades

Studying within the **School of Industry and Trades** prepares students for skilled trades and service occupations. These occupations can include **designing, producing, processing, assembling, servicing, repairing and maintaining products.** Students enrolled in this school may or may not participate in MCI's vocational program - **Somerset Career & Technical Center.**

Students earn a total of 24 credits consisting of the following fields of study:

- **Humanities (7 credits)**
- **Math (3 credits)**
- **Science & Technology (3.5 credits)**
- **Human Development (1.5 credits)**
- **Fine Arts (1 credit)**
- **Hands-On Learning (4 credits)**
  - *These include* ***Co-op Opportunities, Experiential Learning Opportunities, offerings at SCTC*** *and more.*
- **4 Additional Elective Credits**

Partnerships

Somerset Career & Tecnical Center (SCTC)

SCTC is a standout among Maine's 27 Career & Technical Education centers, where they seamlessly blend academic excellence with hands-on technical training. **Located just 30 minutes from campus,** students will attend the center for the full school day and gain invaluable knowledge in the fields of **automotive technology, culinary arts, electrical construction, welding technology, residential construction,** and more. This wide range of programming gives our students the best opportunity possible to learn a trade and enter the workforce with those necessary skills.

The Cianbro Institute

The Cianbro Institute offers professional growth opportunities right in our ownbackyard. The Institute works diligently to build upon partnerships with external organizations and educational centers to offer the very best learning opportunities. **Over the course of eight day-long visits to the Institute over four months,** students will experience the trades through hands-on, foundational learning with instructors from the Cianbro Institute. When finished, **students will have better understanding of the construction industry.**

Jobs for Maine Graduates (JMG)

Jobs for Maine Graduates (JMG) is an organization that partners with public education and private businesses to offer results-driven solutions to **ensure all Maine students graduate, attain postsecondary credentials, and pursue meaningful careers.** The primary objective of the core program is to keep students fully engaged in high school through graduation, leading to **enrollment in post-secondary education,** a continued education credential or training program, or a **quality job with a career pathway.**

JMG

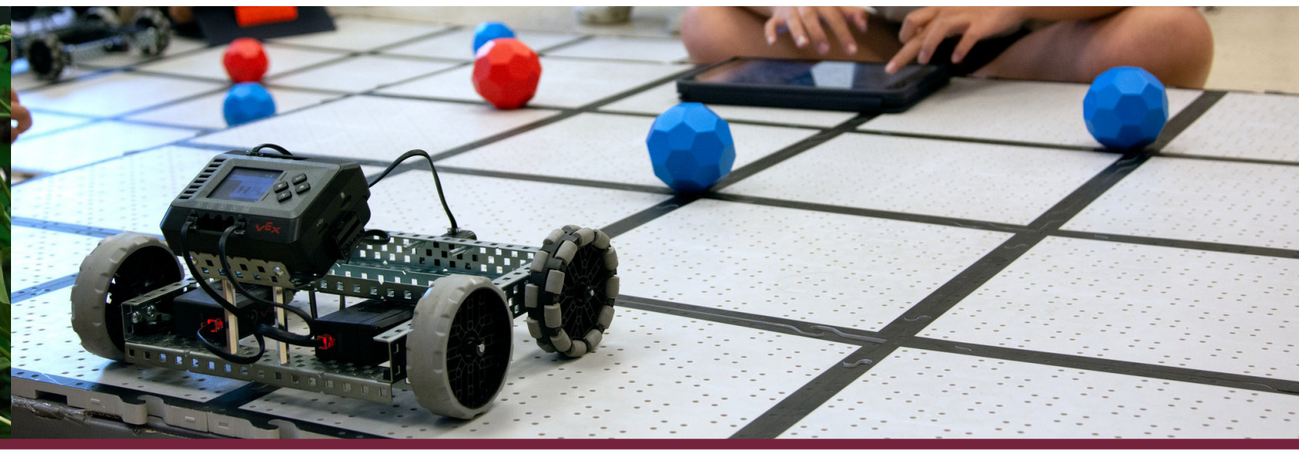
School of Nature

Students will take courses that allow them to **actively engage in their natural environment**, often through hands-on learning, data collection, and analysis of plants, animals, and ecosystems.These immersive experiences encourage **scientific inquiry, environmental stewardship, and a deeper appreciation for biodiversity**, while helping students develop research, observation, and critical thinking skills in outdoor settings.

Students earn a total of 24 credits consisting of the following fields of study:

- **Science & Technology (4.5 credits)**
  - *Advanced course offerings include **AP Biology, AP Chemistry, AP Environmental Science,** and more.*
- **Math (3 credits)**
- **Humanities (7 credits)**
- **Human Development (1.5 credits)**
- **Fine Arts (1 credit)**
- **World Language (2 credits recommended)**
- **6.5 Additional Elective Credits**

School of Engineering



Students will enroll in courses that provide a **solid academic foundation in mathematics, physics, and chemistry.** These rigorous subjects will help them develop **strong analytical and problem-solving skills essential for engineering studies** at the collegiate level, while also fostering critical thinking, creativity, collaboration, and a **deeper understanding of scientific principles** in real-world contexts.

Students earn a total of 24 credits consisting of the following fields of study:

- **Science & Technology (5.5 credits)**
  - *Advanced course offerings include **AP Physics, AP Chemistry,** and more.*
- **Math (4 credits)**
  - *Advanced courses include **AP Calculus AB, AP Calculus BC, AP Statistics,** and more.*
- **Humanities (7 credits)**
- **Human Development (1.5 credits)**
- **Fine Arts (1 credit)**
- **World Language (2 credits recommended)**
- **5 Additional Elective Credits**

School of Exploration

Enrolling in the School of Exploration (Traditional Diploma) allows students to actively pursue learning in **various fields like science, art and history,** which allows them to connect ideas and concepts from different disciplines to gain new insight for solving problems or understanding complex issues. **The School of Exploration is perfect for a student who is still considering what they would like to study** or do upon graduation from MCI.

Students earn a total of 24 credits consisting of the following fields of study:

- **Science & Technology (3.5 credits)**
- **Math (3 credits)**
- **Humanities (7 credits)**
- **Human Development (1.5 credits)**
- **Fine Arts (2 credit)**
- **World Language (2 credits recommended)**
- **7 Additional Elective Credits**