

## M.A.C.T.E Elementary (6 through 12 years) Program

Total Duration: 2-4 years

Minimum of 2300 Academic/Contact Hours

### Courses (200+Hrs.):

*Typical Range, 200-400+hrs*

### Practicum (2000+hrs.)

*Typical Range, 1800-2300+hrs*

#### Course Overview:

##### Montessori Philosophy & Child Development

##### Topics:

Montessori History, Philosophy & Pedagogy  
Human Development  
Theories of Child Development  
Special Needs  
Brain Development  
Parent Education, Involvement & Support

##### Elementary Curriculum Implementation:

##### Topics:

Record Keeping  
Observation Techniques  
Classroom Management  
Practical Life Curriculum  
Mathematics and Geometry Curriculum  
Biology and Science Curriculum  
Geography and History Curriculum  
Language Arts Curriculum  
Visual Arts, Music, Physical Education and Movement  
Positive Discipline & Peace Education  
Self-Knowledge  
Child Assessment  
Cultural Awareness  
Conferences

#### Student Teaching & Observation

Practicum hours do not include, independent research, material making, album preparation and/or examinations.

#### Program Ties to Core Knowledge Categories:

Learning Environments & Curriculum  
Human Growth & Development  
Health, Safety & Nutrition  
Observation & Assessment  
Personal, Professional & Leadership Development  
Families & Community Systems  
Diversity  
Program Management  
Special Needs  
Understanding & Guiding Behavior

**Course Category:** **Montessori Philosophy, Pedagogy and Child Development**

**Minimum course Topics:** Biography of Dr. Maria Montessori; examination of Montessori's principles, ideology and philosophy with emphasis on Montessori's concept of children ages 6 through 12 years of age; Scientific analysis of how to nurture and assist the unfolding of the human personality; care of physical and psychological needs through integrated, multi-disciplinary curriculum; environmental design; positive strategies, interaction and communication techniques with children; developmental observation, record keeping and assessment; adult role in environment; family partnership and involvement; personal development of adult guide and caregiver. Introduction to theories of child and human development referencing contemporary theorists. Presentations on typical and atypical cognitive, physical, social and emotional development for children ages birth through 12 years; examination of brain development and current neuroscience research as it relates to learning for children ages 6 through 12.

**Hours** 75+hrs

**Course Description:** Through lecture, group process, reading assignments, observation and development as well as her implemented pedagogy for the elementary aged child, students shall demonstrate a gained confidence in applying methodology, guiding children and creating aesthetic Montessori classroom environments, display the appropriate scope and sequence of the Montessori elementary curriculum. Adult learners shall continually demonstrate self-reflection and personal development within their practice and sensitivity to the diverse make-ups of each classroom and family.

**Course Work Examples:**

- > Reading & Reports from Montessori Literature
- > Reading & Reports from Historical Theories of Development
- > Child Development Study
- > Self-Reflection, Introspection and Self-Evaluation

**Competencies/Assessment:**

- > Class participation and note taking
- > Completion and Review of Album (Resource Manual)
- > Essay; written and/or oral quiz; multiple choice & short answer test
- > Rationale Paper
- > Minimum of 6 Field Supervision Evaluation Reports

**Core Knowledge Categories:**

- Human Growth and Development
- Diversity
- Learning Environments and Curriculum
- Personal, Professional & Leadership Development
- Understanding & Guiding Behavior

**Level of Content:** Set One and Two

**Course Outcomes:** a. Demonstrates an understanding of and implements Montessori philosophy

with a focus on the Elementary years.

- b. Comprehends and utilizes an understanding of the stages of human growth, development and educational theories with an emphasis on children ages 6 through 12 years of age.
- c. Demonstrates evidence of personal growth through self-evaluation and introspection.
- d. Demonstrates knowledge of developmental and behavioral norms and potential recommendations toward early intervention services.

**Course Category:** Curriculum Implementation: Practical Life

**Minimum course Topics:** Presentation of the comprehensive 6-year, scope and sequence of the practical life materials and goals for children ages 6 through 12; Scientific analysis of material goals for children in concentration, coordination, independence, sense of order and muscle control.

**Hours** 6-9 curriculum: 3.5+hrs. 9-12 curriculum: emphasized throughout all courses

**Course Description:** Through lecture and discussion, adult learners discover the importance of the children taking responsibility and care not only of their classroom environment but also of the world they live in. Concepts of ecology, and conservation are introduced along with care of plants, animals, and objects in classroom environment and ideas of responsibility toward one's own work and growth and society they live in.

**Course Work Examples:**

- > Practice presenting material lessons
- > Rationale Paper
- > Classroom Observation

**Competencies/Assessment:**

- > Class participation and note taking
- > Oral and Written Exam
- > Rationale Paper and Quotes
- > Minimum of 6 Field Supervision Evaluations during Practicum Phase
- > Self-Reflection, Goal Setting and Final Evaluation

**Core Knowledge Categories:**

- Learning Environments & Curriculum
- Diversity
- Observation and Assessment
- Understanding & Guiding Behavior
- Health, Safety & Nutrition

**Level of Content:** Set One and Two

**Course Outcomes:**

- a. Demonstrates the principles of Montessori environmental and material design
- b. Articulates the rationale and sequence of the Montessori practical life curriculum; Implements an integrated Montessori cosmic curriculum appropriate for ages 6 through 12 years of age.
- c. Demonstrates proficiency in applying Montessori principles in the context of the curriculum, didactic materials and lesson presentations.
- d. Designs and maintains a developmentally appropriate Montessori environment in response to the needs of students 6 through 12 years of age.
- e. Utilizes a variety of instructional strategies and assessment methods.

f. Demonstrates an awareness and understanding of governmental regulations.

**Course Category:** Curriculum Implementation: Visual Arts, Music, Physical Education & Movement

**Minimum course Topics:** Presentation of the comprehensive 3- year, scope and sequence of how to incorporate art, music, and physical education and movement into the daily routine of 6 through 9 year old children. These concepts continue to be furthered practiced with the 9-12 year old children.

**Hours** 13+hrs

**Course Description:** Through lecture, material presentations, group process and discussion, as well as supervised practice with materials, adult learners discover the appropriate age, direct aim, indirect aim and precise presentation of the art skills, music and perceptual motor development curriculum.

**Course Work Examples:**

- > Practice presenting material lessons
- > Rationale Paper
- > Classroom Observation

**Competencies/Assessment:**

- > Class participation and note taking
- > Completion and Review of Album (Resource Manual)
- > Oral and Written Exam
- > Evaluation of Material Presentations
- > Rationale Paper & Quotes
- > Minimum of 6 Field Supervision Evaluations during Practicum Phase
- > Self-Reflection, Goal Setting and Final Evaluation

**Core Knowledge Categories:**

- Learning Environments & Curriculum
- Diversity
- Observation and Assessment
- Understanding & Guiding Behavior

**Level of Content:** Set One and Two

**Course Outcomes:**

- a. Demonstrates the principles of Montessori environmental and material design
- b. Articulates the rationale and sequence of the Montessori practical life curriculum; Implements an integrated curriculum appropriate for ages 6 through 12.
- c. Demonstrates proficiency in applying Montessori principles in the context of the curriculum, didactic materials and lesson presentations
- d. Designs and maintains a developmentally appropriate Montessori environment in response to the needs of students 6 through 12 years of age; growing collection of songs, artist information and physical education skills, games etc.
- e. Utilizes a variety of instructional strategies and assessment methods.
- f. Demonstrates an awareness and understanding of governmental regulations.

**Course Category:** Curriculum Implementation: Mathematics

**Minimum course Topics:** Presentation of the comprehensive 6- year, scope and sequence of the mathematical materials, intellectual and historical development of mathematical and geometrical thinking, the four basic mathematical processes and other competencies for children ages 6 through 12.

**Hours** **Elementary (6-12) Mathematics**  
6-9 curriculum: 75+hrs. 9-12 curriculum: 64+ hrs.

**Course Description:** Through lecture, demonstrations, discussions and supervised practice sessions, adult learners discover the appropriate age, direct and indirect aim, and precise presentations of the four basic mathematical processes and other competencies appropriate for children 6 through 9 years old. The EL II course extends the mathematical processes and competencies appropriate for children 9 through 12 years old.

**Course Work Examples:**

- > Creation of Mathematics Album
- > Practice presenting material lessons
- > Material-Making
- > Rationale Paper& Year Long Project
- > Classroom Observation

**Competencies/Assessment:**

- > Class participation and note taking
- > Completion and Review of Mathematics Album
- > Oral and Written Exam
- > Evaluation of Material Presentations
- > Rationale Paper & Quotes
- > Minimum of 6 Field Supervision Evaluations
- > Self-Reflection, Gaol Setting and Final-Evaluation

**Core Knowledge Categories:** Learning Environments & Curriculum  
Diversity  
Observation and Assessment  
Understanding & Guiding Behavior

**Level of Content:** Set One and Two

**Course Outcomes:**

- a. Demonstrates the principles of Montessori environmental and material design;.
- b. Articulates the rationale and sequence of the Montessori Biology curriculum; Implements an integrated Montessori cosmic curriculum
- c. appropriate for ages 6 through 12.
- d. Demonstrates proficiency in applying Montessori principles in the context of the curriculum, didactic materials and lesson presentations
- e. Designs and maintains a developmentally appropriate Montessori environment in response
- f. to the needs of students 6 through 12 years of age.

Utilizes a variety of instructional strategies and assessment methods.

Demonstrates an awareness and understanding of governmental regulations.

**Elementary (6-12) Geometry**  
6-9 curriculum: 28+hrs. 9-12 curriculum: 40+hrs.

Through lectures, demonstrations, discussions, and supervised labs, the intellectual and historical development of geometric thinking, the study of plane and solid geometry and the study of measurement are presented to the adult learner.

> Creation of Geometry Album  
> Practice presenting material lessons  
> Material-Making  
> Rationale Paper& Year Long Project  
> Classroom Observation

> Class participation and note taking  
> Completion and Review of Geometry Album  
> Oral and Written Exam  
> Evaluation of Material Presentations  
> Rationale Paper & Quotes  
> Minimum of 6 Field Supervision Evaluations  
> Self-Reflection, Gaol Setting and Final-Evaluation

Learning Environments & Curriculum  
Diversity  
Observation and Assessment  
Understanding & Guiding Behavior

Set One and Two

a. Demonstrates the principles of Montessori environmental and material design;.

- b. Articulates the rationale and sequence of the Montessori Biology curriculum; Implements an integrated Montessori cosmic curriculum
- c. appropriate for ages 6 through 12.
- d. Demonstrates proficiency in applying Montessori principles in the context of the curriculum, didactic materials and lesson presentations
- e. Designs and maintains a developmentally appropriate Montessori environment in response
- f. to the needs of students 6 through 12 years of age.

Utilizes a variety of instructional strategies and assessment methods.

Demonstrates an awareness and understanding of governmental regulations.

**Course Category:** Curriculum Implementation: Biology and Science

**Minimum course Topics:** Presentations of the comprehensive 6-year, scope and sequence of biology materials for children 6 through 12. Students learn to closely observe to identify, organize and classify plants and animals and their life functions.

**Elementary (6-12) Biology**

**Hours** 6-9 curriculum: 28+hrs. 9-12 curriculum: 23+hrs.

**Course Description:** Through lecture, material presentations, field trips, discussions and supervised labs, each aspect of the phenomena of plant and animal life are explored. Biological studies are presented in an interdisciplinary way so that they help children orient themselves to the laws of the universe and the ever intertwining and parallel evolution of all things, historically and taxonomically.

**Elementary (6-12) Science**

6-9 curriculum: 17+hrs. 9-12 curriculum: 15+hrs.

Through lecture, material presentations, discussions and supervised labs, adult learners will discover ideas of physical sciences, chemistry and earth science.

**Course Work Examples:**

- > Creation of Biology Album (Resource Manual)
- > Practice presenting material lessons
- > Material-Making
- > Rationale Paper & Year Long Project
- > Classroom Observation

- > Creation of Science Album (Resource Manual)
- > Practice presenting material lessons
- > Material-Making
- > Rationale Paper & Year Long Project
- > Classroom Observation

**Competencies/Assessment:**

- > Class participation and note taking
- > Completion and Review of Geography Album
- > Oral and Written Exam
- > Evaluation of Material Presentations
- > Rationale Paper & Quotes
- > Minimum of 6 Field Supervision Evaluations
- > Self-Reflection, Gaol Setting and Final-Evaluation

- > Class participation and note taking
- > Completion and Review of Geography Album
- > Oral and Written Exam
- > Evaluation of Material Presentations
- > Rationale Paper & Quotes
- > Minimum of 6 Field Supervision Evaluations
- > Self-Reflection, Gaol Setting and Final-Evaluation

**Core Knowledge Categories:**

Learning Environments & Curriculum  
Diversity  
Observation and Assessment  
Understanding & Guiding Behavior

Learning Environments & Curriculum  
Diversity  
Observation and Assessment  
Understanding & Guiding Behavior

**Level of Content:** Set One and Two

Set One and Two

**Course Outcomes:**

- a. Demonstrates the principles of Montessori environmental and material design;.
- b. Articulates the rationale and sequence of the Montessori Biology curriculum; Implements an integrated Montessori cosmic curriculum appropriate for ages 6 through 12.
- c. Demonstrates proficiency in applying Montessori principles in the context of the curriculum, didactic materials and lesson presentations
- d. Designs and maintains a developmentally appropriate Montessori environment in response to the needs of students 6 through 12 years of age.
- e. Utilizes a variety of instructional strategies and assessment methods.
- f. Demonstrates an awareness and understanding of governmental regulations.

- a. Demonstrates the principles of Montessori environmental and material design;.
- b. Articulates the rationale and sequence of the Montessori Science curriculum; Implements an integrated Montessori cosmic curriculum appropriate for ages 6 through 12.
- c. Demonstrates proficiency in applying Montessori principles in the context of the curriculum, didactic materials and lesson presentations
- d. Designs and maintains a developmentally appropriate Montessori environment in response to the needs of students 6 through 12 years of age.
- e. Utilizes a variety of instructional strategies and assessment methods.
- f. Demonstrates an awareness and understanding of governmental regulations.



**Course Category:** Curriculum Implementation: Geography and History

**Minimum course Topics:** Presentation of the comprehensive 6-year, scope and sequence of the cultural subjects materials for children ages 6 through 12; Scientific analysis of material goals for children in concentration, coordination, independence, interdependence, sense of wonder and vocabulary expansion.

**Hours** **Elementary (6-12) Geography**

6-9 curriculum: 22+hrs. 9-12 curriculum: 32+hrs.

**Elementary (6-12) History**

6-9 curriculum: 20+hrs. 9-12 curriculum: 24+hrs.

**Course Description:** Through lecture, material presentations, group discussion, as well as experimentation and supervised labs, adult learners will discover various aspects of physical, political and economic geography, the child's place in the world and vertical/horizontal knowledge of the earth as well as astronomical geography.

Through lecture, material presentations, group discussion, as well as experimentation and supervised labs, adult learners will discover various aspects of our planet Earth and the history of its human inhabitants. Adult learners will understand ways of geographically representing time concepts related to the history of our planet and of persons, civilizations, etc.

**Course Work Examples:**

- > Creation of Geography Album (Resource Manual)
- > Practice presenting material lessons
- > Material-Making
- > Rationale Paper & Year Long Project
- > Classroom Observation

- > Creation of History Album (Resource Manual)
- > Practice presenting material lessons
- > Material-Making
- > Rationale Paper & Year Long Project
- > Classroom Observation

**Competencies/Assessment:**

- > Class participation and note taking
- > Completion and Review of Geography Album
- > Oral and Written Exam
- > Evaluation of Material Presentations
- > Rationale Paper & Quotes
- > Minimum of 6 Field Supervision Evaluations
- > Self-Reflection, Goal Setting and Final-Evaluation

- > Class participation and note taking
- > Completion and Review of Geography Album
- > Oral and Written Exam
- > Evaluation of Material Presentations
- > Rationale Paper & Quotes
- > Minimum of 6 Field Supervision Evaluations
- > Self-Reflection, Goal Setting and Final-Evaluation

**Core Knowledge Categories:**

Learning Environments & Curriculum  
Diversity  
Observation and Assessment  
Understanding & Guiding Behavior

Learning Environments & Curriculum  
Diversity  
Observation and Assessment  
Understanding & Guiding Behavior

**Level of Content:** Set One and Two

Set One and Two

**Course Outcomes:**

- a. Demonstrates the principles of Montessori environmental and material design
- b. Articulates the rationale and sequence of the Geography and History curriculum; Implements an integrated Montessori cosmic curriculum appropriate for ages 6 through 12.
- c. Demonstrates proficiency in applying Montessori principles in the context of the curriculum, didactic materials and lesson presentations
- d. Designs and maintains a developmentally appropriate Montessori environment in response to the needs of students 6 through 12 years of age.
- e. Utilizes a variety of instructional strategies and assessment methods.
- f. Demonstrates an awareness and understanding of governmental regulations.

- a. Demonstrates the principles of Montessori environmental and material design
- b. Articulates the rationale and sequence of the Geography and History curriculum; Implements an integrated Montessori cosmic curriculum appropriate for ages 6 through 12.
- c. Demonstrates proficiency in applying Montessori principles in the context of the curriculum, didactic materials and lesson presentations
- d. Designs and maintains a developmentally appropriate Montessori environment in response to the needs of students 6 through 12 years of age.
- e. Utilizes a variety of instructional strategies and assessment methods.
- f. Demonstrates an awareness and understanding of governmental regulations.

**Course Category:** Curriculum Implementation: Language

**Minimum course Topics:** Presentations of the comprehensive 6-year, scope and sequence of the language materials for children ages 6 through 12. Speaking, writing, spelling, reading and researching skills are presented as well as grammar components and vocabulary. The history of reading and writing are also investigated.

**Hours** 6-9 curriculum: 50+hrs; 9-12 curriculum: 44+ hrs.

**Course Description:** Through lecture, material presentation, group process and discussion, as well as supervised practice with materials, adult learners discover the multi-faceted aspects of the Montessori Language Arts curriculum, which supports the child's acquisition and refinement of speaking, writing, spelling, reading, and researching skills.

**Course Work Examples:**

- > Creation of Language Album (Resource Manual)
- > Practice presenting material lessons
- > Material-Making
- > Rationale Paper & Year Long Project
- > Classroom Observation

**Competencies/Assessment:**

- > Class participation and note taking
- > Completion and Review of Language Album (Resource Manual)
- > Oral and Written Exam
- > Evaluation of Material Presentations
- > Rationale Paper & Quotes
- > Minimum of 6 Field Supervision Evaluations during Practicum Phase
- > Self-Reflection, Goal Setting, Final Evaluation

**Core Knowledge Categories:**

- Learning Environments & Curriculum
- Diversity
- Observation and Assessment
- Understanding & Guiding Behavior

**Level of Content:** Set One and Two

**Course Outcomes:**

- a. Demonstrates the principles of Montessori environmental and material design; implements an integrated Montessori cosmic curriculum appropriate for children ages 6 through 12.
- b. Articulates the rationale and sequence of the Montessori Language curriculum.
- c. Demonstrates proficiency in applying Montessori principles in the context of the curriculum, didactic materials and lesson presentations
- d. Designs and maintains a developmentally appropriate Montessori environment

in response to the needs of students 6 through 12 years of age

- e. Utilizes a variety of instructional strategies and assessment methods.
- f. Demonstrates an awareness and understanding of governmental regulations.

**Course Category: Practicum**

**Minimum course Topics:** The Practicum (student teaching) experience provides the adult learner with a minimum of 2000 combined hours of supervised practice teaching, classroom observation, internalization of methodology and further study to best bring together Montessori educational theory and practice. The learner will participate in all facets of the 6 through 9, and 9 through 12 year old environments including, but not limited to environmental design, ongoing curriculum planning, material presentations, record-keeping, observation, family communication and administrative policies and procedures.

**Hours** 2000+hrs

**Course Work Examples:**

- > Field Observations in 6 through 12 year old Montessori classrooms
- > Meetings with Supervising teacher
- > Observation Notes and Record-Keeping
- > Self-Reflection, Introspection and Self-Evaluation

**Competencies/Assessment:**

- > Notes & Reports from 6-12 Field Supervisor Observations
- > Review of classroom observation notes and record-keeping
- > Reflective Essays
- > Log of completed Practicum Hours
- > Final Oral and Written Exam

**Core Knowledge Categories:**

- Observation and Assessment
- Learning Environments and Curriculum
- Curriculum Leadership
- Personal, Professional & Leadership Development
- Health, Safety and Nutrition
- Families & Community Systems
- Understanding & Guiding Behavior
- Community Involvement & Partnership with Families
- Diversity

**Level of Content:** Set Two

**Course Outcomes:**

- a. Demonstrates an understanding of and implements Montessori philosophy with a focus on children 6 to 12 years of age.
- b. Comprehends and utilizes an understanding of the stages of human growth, development and educational theories with an emphasis from six to twelve years of age.
- c. Demonstrates evidence of personal growth through self-evaluation and introspection; refined observation and assessment skills.
- d. Demonstrates knowledge of developmental and behavioral norms and potential recommendations toward early intervention services.