

**Cape Cod Collaborative  
Advanced Studies and Leadership Program**

*In Partnership with  
Massachusetts Maritime Academy*

*Parent/Student Catalogue*

*2012 Summer Session*

*June 24 (Sunday Evening)  
To  
Friday, July 13*

***Mission***

*To provide an enriched learning and social experience within a collegial and supportive residential environment that emphasizes project-oriented instruction, team building and leadership development for high achieving students from Cape Cod Collaborative member districts and off-Cape affiliated districts*

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## **About Cape Cod Collaborative**

Cape Cod Collaborative is an educational organization providing services to students, parents and public school staff from its member districts, which include: Barnstable, Bourne, Brewster, Cape Cod Technical Hs, Chatham, Dennis-Yarmouth, Eastham, Falmouth, Harwich, Martha's Vineyard Reg. H.S., Mashpee, Nantucket, Nauset, Orleans, Provincetown, Sandwich, Truro, Upper Cape Cod RTS, Wareham, and Wellfleet. The Collaborative was originally established in 1975 to provide high quality services to low incident special student populations whose needs could be best addressed through a multi-district effort.

Supervision and oversight of Collaborative operations is the responsibility of the Executive Director who answers to a Board of Directors. The Board is comprised of school committee representatives from the 19 Cape and Islands school districts that make-up its membership.

Currently, the Collaborative provides a wide range of services to students and staff. Student services include alternative education programs, programs for the multi-handicapped, therapy and support services for students requiring specialized support and transportation services for both special needs students and general education students. Services offered for staff include a wide array of professional development including college courses, workshops, and summer institutes. Collegial sharing opportunities are coordinated and facilitated for various professional groups including the Superintendents of Schools, Administrators of Special Education, Curriculum Administrators and Principals.

The Advanced Studies and Leadership Program is a program developed (2005) to enhance and enrich the education of high achieving students and has been an exciting addition to the schedule of Collaborative services.

## **About Massachusetts Maritime Academy**

The mission of Massachusetts Maritime Academy is to graduate educated men and women to serve the maritime industry as licensed officers or to serve the transportation, engineering, environmental, and industrial interests of the Commonwealth and the Nation.

The academy supports national defense by the commissioning of officers in the U.S. Merchant Marine and the U.S. Armed Forces.

The Academy believes in learning through application and requires students to spend a portion of their academic program at sea or in internships or cooperatives. Resident life is regimented, instilling in cadets honor, responsibility, discipline, and leadership.

A complementary mission of MMA is to provide lifelong learning opportunities, particularly for those in marine industries, and to serve the Commonwealth and region in furthering their maritime interests.

## **Objectives**

The objectives of the ASLP are as follows:

1. To support and stimulate high achieving students by providing a 3-week summer program that offers hands-on academic pursuit and interactive leadership activities within a collegial environment.
2. To provide a total of 48 hours of project-oriented study in STEM\* related subject areas.
3. To provide a total of 24 hours of project-oriented study in a humanities related subject area.
4. To provide an evening program of interactive leadership activities.
5. To provide necessary media and library support to ensure success for each student.

## **Eligibility**

A student is eligible to participate in the Advanced Studies and Leadership Program if:

1. The student is entering grade 8 or 9 in September of 2012.
2. The student is enrolled in a public school within a member district of the Cape Cod Collaborative. Note: a limited number of seats may be made available to public school students from non-member districts.
3. The student has sufficient background, potential, and the commitment to profit from the courses and residential environment being offered.

\*Science, Technology, Engineering, Math

## **Selection**

Each member district will be notified of their allotment of seats by November 16, 2011. Seat allotments per district are determined based on the total number of students in grades 7 and grade 8 in each district. No more than 20% of the seats in any district may be allotted to returning students. The number of students selected for participation in the program should not exceed the number of seats allotted to the district. **It is recommended that each district establish a waiting list in the case that additional seats become available.**

Approximately 150 public school students will participate in the program on the basis of:

1. History of academic achievement
2. Interest in subject area to be pursued
3. Current teacher recommendations (two)
4. Guidance Counselor/or Principal recommendations

In order to qualify for participation in the ASLP, students must have achieved, on the most recent administration of the MCAS tests, a combined score in math and in English or science that is within the top 10% of the combined math and English grade level scores for the district. **Note:** These scores will span two years: for students entering grade 8, scores to be utilized would be math in grade 6 and science in grade 5; for students entering grade 9, scores to be utilized would be math in grade 6 and ELA in grade 7.

### **Admission Requirements**

Students who are accepted for the Program will be notified in writing on or about April 10. Final acceptance requires the submission of a \$250.00 deposit, completion and submission of our Parent Questionnaire, and submission of the Student Health Form. The deposit and Parent Questionnaire are due within 10 business days from receipt of the initial acceptance letter. The Student Health Information form must be completed and signed by parents/guardians and a physician, and returned no later than May 30, 2012. The aforementioned health information is required to ensure the health and safety of students attending ASLP.

If parents indicate on the Parent Questionnaire that the student will be on prescribed medication during the program, a Prescription Medication Permission Form will be sent to you to the parent/guardian to be signed by a licensed prescriber and returned no later than May 30, 2012.

### **Student Comportment**

In each session, mature and proper behavior among students is expected. The Program attempts to achieve a balance between the necessities for structure, rules, and regulations, and the desire to allow students the freedom to grow and mature. In essence, the Advanced Studies and Leadership Program seeks those highly-motivated students who themselves are seeking an academic challenge, who are willing to take risks, are not afraid to work, and who want to involve themselves in a stimulating environment which encourages learning and growth.

No student should apply for the Advanced Studies and Leadership Program unless he/she is COMMITTED TO BE IN RESIDENCE FOR THE ENTIRE THREE WEEKS, interested in diligent study, and willing to follow the rules and regulations of the Program Code of Conduct.

### **Project Support/Assistance**

An assistance/support service is provided by members of volunteer staff. The assistance is provided on a schedule established between the volunteer and the student(s) involved. Individual and group assistance is provided. Services are provided on a voluntary basis and by teacher referral.

### **Recreation and Social Activities**

Students will not be required to participate in a formal physical education program. However, recreation facilities (including the college gymnasium, swimming pool, and tennis courts) will be available under supervision for students at designated times. Students' dances/socials will be held one evening per week – usually Thursday evening.

### **Core Leadership Course**

As part of the Core Leadership Course the entire student body will assemble three evenings per week for programs planned primarily to provide interactive activities that support personal growth in relation to leadership development. Guest speakers, demonstrations, team building activities and audio/visual presentations will be offered as part of the program.

## 2012 Calendar

The date to submit your completed application to your principal or guidance counselor will be established by each school district. The selection for admission to ASLP is a district-based decision.

Friday	February 10	Deadline for receipt of applications from member school systems
Friday	April 6	Student acceptance notification from ASLP Office
Friday	May 25	Last day for final payment of tuition
Sunday	June 24	Move-in, Registration, Orientation 5:00 P.M.
Monday	June 25	First Day of Program
Friday	July 13	Commencement Program 9:30 am

## Daily Schedule

7:30-8:15	Breakfast
8:30-10:10	First Period
10:10-10:30	Break
10:30-12:10	Second Period
12:15-1:00	Lunch
1:05-2:20	Third Period
2:30-5:00	Independent Study, Field Trips, Recreational Activities, Course-Related Activities, Tutorial Sessions
5:00-6:00	Dinner
6:30-8:30	Leadership Seminar/Activities
8:45-10:00	Formal Study (Dormitory)
10:30	Lights Out

(Note: The above schedule is subject to change)

# Curriculum Overview

## **STEM Pathways and Modules**

The 2012 STEM course format has been redesigned to better accommodate both new students and returning students. Two STEM “pathways” have been created. Each pathway involves 3 STEM modules.

Pathway I–Power Engineering & Renewable Energy (Module A), Navigation (Module B), Marine Environmental Problems on Cape Cod (Module C).

Pathway II – Remotely Operated Vehicles and Their Use in Oceanography (Module A), Ecology of Running Waters (Module B), Ship Handling (Module C).

Note: Each Module will involve 4 days (3.5 hours each day) of exciting hands-on study, which will include demonstrations and interactive work with world-class technology and state-of-the-art science labs (see module descriptions).

## **Humanities Courses – All Students**

One elective Humanities Course (105 minutes per day) to be selected from the following courses:

- Course I “Improve with Improv I”
- Course II “Improve with Improv II”
- Course III “Yearbook Development-Writing and Publication”
- Course IV “Painting and Drawing”
- Course V “Critics Corner”
- Course VI “Musical Creativity”

(See course descriptions)

## **Other Required Related Activities- All Students**

1. Afternoon participation in course related activities (such as field trips or labs), or participation in recreational activities are required.

2. A core seminar program on Leadership from 6:30-8:30 pm three evenings per week. This program will involve the entire student body in demonstrations, lectures, films, and team building activities.

Note: Oversubscription in a humanities course may necessitate a student being placed in an alternative humanities course. The Advanced Studies and Leadership Program reserves the right to cancel any course offering.

### **“Power Engineering and Renewable Energy”**

The “Power Engineering” course consists of an overview of engineering concepts as they relate to power generation. Steam generation, turbine technology, and electrical generation will be covered as appropriate for the age group. Alternative/renewable generation technologies will also be discussed.

The laboratory component of this program includes use of the engine room of the Academy’s 550 ft. training ship, Enterprise. The students will also utilize the Academy’s newest engineering labs to build a working model of the steam cycle. Also to be discussed and demonstrated will be the application of engineering concepts that will be used to resolve issues of renewable energy.

The capstone project is the construction of an operating gas-fired steam plant that will produce an electrical voltage.

### **“Navigation and Ship Handling”**

Topics covered during the “Navigation” module include boating safety, principles of navigation, chart work, voyage planning and seamanship. Imbedded within the course frameworks is the Academy’s Coast Guard approved Boating Operators course.

The laboratory work included in the “Ship Handling” course includes basic seamanship skills such as knot tying and line work as well as lifeboat operations. The Academy’s state-of-the-art Radar labs and Ship’s Bridge Simulator will also be utilized.

The capstone project will be a team-based simulator exercise that requires the students to steam a 600 ft. ship into Boston harbor.

## **“Marine Environmental Problems on Cape Cod”**

This short course will focus on four environmental problems of concern to Cape Cod and other coastal regions: nutrient loading, harmful algal blooms, conservation and restoration of wetlands, and invasive plants. The daily sessions will consist of lecture, discussion and field or laboratory demonstrations with hands-on participation of the students.

Wetlands are among the most endangered ecosystems. Projects are underway across the country to try to conserve and restore wetland habitats. Students in the Department of Marine Safety and Environmental Protection at MMA have been directly involved for two years in a project to restore a nearby degraded salt marsh to its original condition. They are working in cooperation with the Army Corps of Engineers, the National Marine Life Center and the Town of Bourne. We will discuss the problem of wetlands degradation and methods of remediation, and we will make a field trip to our local wetland restoration site.

The capstone experience of the Marine Environmental Problems on Cape Cod module will be a field trip to a severely degraded wetland for which restoration plans are underway. This trip will bring into focus the four environmental themes to be addressed in the classroom and laboratory: nutrient loading, algal blooms, invasive plants, and wetlands conservation and restoration.

## **“Remotely Operated Vehicles and Their Use in Oceanography”**

This course consists of an overview of ROV's, their construction, and their applications in the marine environment. Students will study the history of their use, and learn the components of a ROV model. From this they will construct their own for use in the campus swimming pool. The class will also visit the Woods Hole Oceanographic Institution for a tour of the ROV equipment being used in current oceanographic research.

## **“Ecology of Running Waters”**

This class is a field and laboratory program in which the students will learn about the ecology of freshwater invertebrate species in a local river. The course will focus primarily on insect populations and their habitats. Running waters, such as rivers and streams, harbor a diverse and unique assembly of species and habitats. Students will participate in field studies that involve collecting, identifying, and analyzing these systems.

## **Course Descriptions-Humanities**

### **Improve with Improv!**

This is a theatre class designed to explore the two components of Improvisational Theatre: as a technique for creating a character and as a Theatre Style on its own. The first half of the course will present improv as a structured method for learning the craft of acting. Through warm-ups, games and exercises, students will develop their skills for constructing a character, establishing an environment and creating dialogue. The second half of the course will be a workshop on the genre of improv shows. Popularized by Improve troupes throughout the country and the comedy channel’s show, “Whose Line Is It Anyways?” improvisation has blossomed into a stage performance on its own merits. The class will study and rehearse the mechanics of creating such a show, eventually breaking into smaller teams to practice performing improv in front of a live audience. This is a high energy, hands-on class that will stretch the actor’s imagination and allow the student to surrender to the excitement and freedom of improvised theatre.

### **Painting and Drawing**

This studio course is designed to develop the painting and drawing skills of all students from beginner to advanced. Topics covered in the session will include: color relationships, composition, and value and art history. Students will work with a variety of subject matter including still life, landscape and the figure. Drawing skills can be learned, and with practice, highly developed. Therefore, this course is designed for students who wish to acquire drawing and painting skills, and for experienced students who wish to augment current skills to a higher degree.

## **Yearbook Development - Writing and Publication**

This course is designed to provide inspiration and a creative experience for the students interested in literary expression. The medium for the students' literacy expression will be the development of an ASLP yearbook. This yearbook will document the students' academic and social experiences while attending ASLP. The class will consist of a group of dedicated writers who must agree to undertake the responsibilities inherent in a course dealing with production deadline. The workload will consist of short nightly assignments which must be completed and revised the next night. Entries might include creative pieces (poetry and prose) as well as journalistic pieces describing the students' experiences over the course of the program.

## **Critics Corner**

This class will explore the components of what makes a great film great and another mediocre. In a discussion-based format, students will explore such characteristics as plot, sub plots, what makes a character memorable and character development. Specific attention will be brought to what creates suspense or high drama and the use of special effects. Students will not only view and critique movies, but will write movie reviews as well.

## **Musical Creativity**

This course will use the venue of the "performing ensemble" to provide a fun and creative opportunity for student musicians and singers. Participants will learn musical repertoire including voice from the jazz/rock styles, as they work towards performances during their final days at camp. Areas of focus will include embouchure, tone production, technique, improvisation and musical style. All musicians who are able to read music at an age appropriate level will be eligible for this class. This includes: singers and musicians including drums, guitars, trumpets, saxes, trombones, flutes, clarinets, baritones, tuba, bass, violin, oboe. All musicians will need to provide their own instruments and will be responsible for their safe keeping.

## **Facilities and Housing**

Academic classes will be held in various buildings on the campus of Mass. Maritime Academy. The college library will be open to all students during their participation in the program. Athletic and recreational facilities of the college will be available at posted times for recreation, including the pool, tennis courts, basketball, softball, and other areas.

Because the program is intensive in nature, and in order to develop and enhance social skills, students are required to live on campus in the assigned Residence Hall.

All students must be picked up by 12:00 pm on Friday.

## **Staff**

Direct supervision of the program is the responsibility of the Program Director of the Advanced Studies and Leadership Program.

The teaching staff of the Advanced Studies and Leadership Program is comprised of college professors, professional teachers, and recent college graduates. The faculty has been drawn from the supporting school districts and Mass. Maritime Academy with due respect for academic training, areas of interest and experience with high achieving students.

Dormitory supervision will be maintained at all times by the Program Director, Assistant Program Director, two resident administrators, male and female proctor/interns.

## **General Information**

Students who are accepted for the Program will receive detailed information regarding orientation, registration procedures, clothing, supplies, and a Code of Conduct.

1. Students will move-in and register on June 26, 2011. Details will be provided with the acceptance letter.
2. No student will be allowed to remain on campus over the weekends. All students must depart by 12:30 pm on Friday.
3. Weekly meals will include Monday lunch through Friday breakfast.
4. Daily schedules of individual students may vary a great deal.

## **Commencement**

Formal commencement exercises including the presentation of certificates will be conducted on Friday July 13 at 9:30 am in the Dining Facility.

## **Statement of Non-Discriminatory-Policy**

The Advanced Studies and Leadership Program of the Cape Cod Collaborative and Mass. Maritime Academy admits students without regard to race, sex, sexual orientation, color, disability, creed, or national origin, to all rights, privileges, programs and activities which it provides for or makes available to its students.

Further, the Program does not discriminate on the basis of sex, race, sexual orientation, creed, color, disability, or national origin in the administration of its educational policies, athletic and other school-administered programs. This same statement of policy applies to the Program's personnel and employment policies.

## **Medical Information**

A health provider will be on duty during morning, afternoon, and evening meals, and on call throughout the rest of the day and night. In case of

emergency, if parents cannot be reached, the student would be transported to the nearest emergency room and seen by the hospital physician. The parent shall be responsible for all expenses related to any illness or condition for which the student requires professional consultation or hospitalization. A premium to cover student accident insurance is included in the tuition.

## **Code of Conduct**

The emphasis in the program is on self-discipline; it underlies the entire structure of the summer program. It is training which develops self-control, character and consideration of the rights of others.

Students who lack the maturity and responsibility for managing their own lives should not undertake the program. The session is brief and intensive; separation from the program will be necessary for students who cannot meet the responsibility of living under the few reasonable rules.

Students enrolled in the program are expected to treat all members of the program community with dignity and respect, to meet all appointments, not neglect their work, and to maintain socially acceptable behavior on and off campus.

A complete copy of the Code of Conduct will be included with the Letter of Acceptance. To be enrolled in the Program, the parent/guardian is required to sign a statement on the Parental Questionnaire indicating that the parent and child have read, accept, and agree to abide by the Code of Conduct. It will be reviewed during the parent orientation meetings prior to the beginning of the Program and again by the dormitory staff during student orientation the first day of the Program.

## **Dress**

Dress is informal but should engender respect for the individual student. More information on this matter will be forthcoming as part of the admission process.

## **Credit**

Students who successfully complete the Advanced Studies and Leadership Program will be awarded a certificate of achievement.

## **Application Information**

Applications must be accompanied by a sixty (\$60.00) dollar non-refundable application fee. Interested students should consult their school principal or guidance counselor for information and application blanks. If further information is necessary write to the Director, Advanced Studies and Leadership Program, Cape Cod Collaborative, 418 Bumps River Road, Osterville, MA. 02655.

An applicant must have the following documents submitted to their guidance/principal's office by the due date designated by the district:

1. Check to cover the sixty (\$60.00) dollar non-refundable application fee
2. Student application
3. Two teacher recommendations
4. Guidance counselor or principal recommendation

These forms and the sixty (\$60.00) dollar non-refundable application fee should be submitted to your principal/guidance office by the due date set by your district. Because the student enrollment in the Advanced Studies and Leadership is limited, it is encouraged that all applications for enrollment be made prior to your school's established deadline. This action will allow the guidance/principal offices in your member systems to evaluate the applications and forward them to the ASLP office prior to the February 10, 2012 deadline.

## **Tuition and Fees**

The total cost for students is \$1377 per student including a \$60.00 application fee (\$1317 tuition + \$60.00 application fee= total \$1377). The cost includes tuition, dormitory room, meals and activity fee.

An application for financial assistance may be obtained from your local guidance office. Financial assistance for those who qualify will be in the range of \$250.00.

Some of the participating school districts may subsidize part of the cost for each student. Local school guidance/principal offices should be contacted concerning the amount of financial assistance, if any, that local school committees provide.

**All parent balances are to be paid in full by May 25<sup>th</sup>, 2012.**

**Tuition payments (checks to be made out to Cape Cod Collaborative) should be mailed to 5500 Curtis Blvd., Otis ANGB, MA 02542.**

### **Refunds**

Within ten (10) days of acceptance, a deposit of \$250.00 is required (check to be made out to Cape Cod Collaborative). Should a student withdraw from the ASLP after acceptance, yet before May 11, 2012, \$150.00 of this deposit is refundable. Should the student withdraw after May 11<sup>th</sup> the entire payment of \$250.00 will be non-refundable.

Should a student withdraw from the program after it has started, yet before it is completed, the following schedule of refunds will apply. Exclusive of the non-refundable \$250.00 deposit, the refund will be computed as follows: if the student leaves during the first week of the program, a refund of 50% of the parental payment (exclusive of the \$250.00 deposit) will be refunded. No refunds will be made after the close of the first week of the program. Financial aid is available for those who qualify for free or reduced lunch. A financial aid form is available at your guidance/principal's office.