

# REGISTRATION FORM



PLEASE FILL OUT  
AND RETURN TO:

ROBBYN DRAKE  
RIVERWATCH DIRECTOR  
1250 NIAGARA ST  
BUFFALO, NY 14213  
TEL: 716-852-7483 x 12  
FAX: 716-885-0765

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ ST: \_\_\_\_\_ ZIP: \_\_\_\_\_

PHONE: \_\_\_\_\_

EMAIL: \_\_\_\_\_

HOW DID YOU HEAR ABOUT US?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## PAYMENT

PAYMENT TYPE: CREDIT OR CHECK

CHECKS PAYABLE TO BUFFALO NIAGARA RIVERKEEPER

CREDIT CARD INFO:

NAME: \_\_\_\_\_

STREET ADDRESS: \_\_\_\_\_

CARD NUMBER: \_\_\_\_\_

EXP DATE: \_\_\_\_\_ CSC#: \_\_\_\_\_

FULL PROGRAM: \$150/ SEMESTER

TUITION WAIVED FOR ECC STUDENTS

RESTRICTED INCOME SCHOLARSHIPS AVAILABLE

SINGLE COURSE: \$50/ CLASS (non-refundable)

COURSE TITLES: \_\_\_\_\_

\_\_\_\_\_



BUFFALO NIAGARA RIVERKEEPER®

**RIVERKEEPER®** leads Buffalo Niagara's efforts to safeguard our water for present and future generations.

Current **RIVERKEEPER®** projects include:

- Buffalo River Remedial Action Plan coordination and river sediment cleanup.
- Riverwatch volunteer watchdog network and hotline.
- Water quality monitoring on Niagara River and tributaries.
- Coordination of Cayuga Creek Watershed Restoration.
- Promotion and installation of Rain Barrels, Rain Gardens and Green Rooftops.
- River Tours of local waterways by foot, bike and boat.
- Restoration of waterfront habitat on public and private lands.
- Biannual Shoreline Sweep, a cleanup covering up to 45 sites across the watershed.
- Planning of Greenway habitat & recreation corridors on Niagara River and tributaries.
- Planning and advocacy for sewer system improvements in the Niagara watershed.

**RIVERKEEPER'S** Riverwatch Program provides residents of the region with an opportunity to serve as watchdogs for the health of our local waterways.

Students of the **RIVER ACADEMY** seek to increase their understanding of our human impact upon the Niagara River watershed.

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WWW.BNRIVERKEEPER.ORG



# RIVER ACADEMY

ENROLL IN AN EXPLORATION OF  
OUR EXTRAORDINARY  
NIAGARA RIVER



NIAGARA MOVES US  
NIAGARA INSPIRES US  
NIAGARA TEACHES US

Buffalo Niagara **RIVERKEEPER®**



# WHAT IS RIVER ACADEMY

# RIVER ACADEMY COURSES - SPRING 2011

RIVERKEEPER's RIVER ACADEMY provides an opportunity for members of the Niagara River watershed community to complete training in stream science, watershed management and riparian restoration. Academy students will learn through a series of rigorous, field-oriented class sessions as well as hands-on restoration workshops on three degraded Niagara River tributaries.

## CAN I RECEIVE COURSE CREDIT OR PROFESSIONAL DEVELOPMENT HOURS FOR PARTICIPATING?

RIVER ACADEMY is held in partnership with Erie County Community College, so both course credit and PD hours are available to participating students. All students will receive a certificate of completion upon finishing the course.

## WHERE AND WHEN ARE COURSES HELD?

RIVER ACADEMY will be held on Thursday mornings at the ECC North campus and Saturday mornings at the Riverkeeper office and field trip locations. Courses will run every week from January 20 - May 14, 2011. Students not seeking course credit will have the option of attending only Saturday sessions.

## HOW DO I SIGN UP FOR RIVER ACADEMY?

Simply fill out the information on the flap of this brochure and mail to Buffalo Niagara RIVERKEEPER, or register online at [www.bnriverkeeper.org](http://www.bnriverkeeper.org). River Academy tuition is \$150 for the full one-semester program. Tuition per course is \$50. Tuitions are waived for students of Erie Community College, who may register for class credit under PHY 120/121, Section 7. Scholarships are available for restricted income individuals.

- 1. MUNICIPAL SEWAGE MANAGEMENT - WWTP TOUR**
  - sewage management in WNY
  - Buffalo Sewer Authority tour –Squaw Island Plant
- 2. GREEN INFRASTRUCTURE AND STORMWATER MODELING**
  - introduction to stormwater
  - stormwater runoff in the Niagara watershed
  - sediment control regulations
  - creative solutions to stormwater runoff contamination and flooding
  - stormwater modeling
- 3. NIAGARA RIVER WATERSHED HYDROLOGY**
  - groundwater
  - stream dynamics
  - ponds and lakes
  - human influence on hydrology
  - unique hydrology of the Great Lakes
- 4. HISTORIC CONTAMINATION OF NIAGARA RIVER WATERWAYS**
  - case study – Buffalo River Remedial Action Plan (RAP)
  - historic contamination in WNY – the big picture
  - tour of toxic sites in WNY – including site interpretation and discussion
- 5. INNOVATIVE HABITAT MONITORING WITH GIS**
  - importance of project monitoring
  - introduction to GIS in habitat monitoring
  - innovative habitat monitoring software for handheld devices
  - stationary monitoring devices
- 6. STREAM ASSESSMENT**
  - introduction to stream assessment
  - stream assessment parameters
  - chemical parameters
  - physical parameters
  - ecological parameters
  - field trip

- 7. MACROINVERTEBRATES OF THE NIAGARA RIVER WATERSHED**
  - introduction to macroinvertebrates
  - local macroinvertebrate identification
  - field trip
- 8. NATIVE AND INVASIVE PLANT SPECIES IN RIPARIAN ENVIRONMENTS**
  - introduction to local aquatic and riparian habitats
  - native aquatic plants
  - native terrestrial plants
  - invasive plant species
- 9. RESTORATION WORKSHOP BUFFALO RIVER**
  - introduction to restoration project planning
  - exploration of site and projects to be completed
  - project implementation
- 10. SHORELINE SWEEP PROJECT LEADERSHIP**
  - environmental community service opportunities in WNY
  - recruiting and leading Shoreline Sweep teams at local waterway sites
- 11. BUFFALO RIVER TREE PLANTING WITH SOUTH PARK HIGH SCHOOL**
  - history of Bailey Peninsula/ Old Bailey Woods sites
  - participate in Riverkeeper/ South Park High School student event; tree planting and invasive removal
  - assist in directing and teaching students
  - assist with setup and breakdown
- 12. FISHES OF THE NIAGARA RIVER WATERSHED**
  - introduction to ichthyology
  - fish survival in the Great Lakes
  - Great Lakes native and invasive species
  - field trip
- 13. SENECA BLUFFS RESTORATION PLANTING**
  - site history, project phases and current plans
  - participate in Riverkeeper planting event
  - assist with setup and breakdowns