New England Onsite Wastewater Training Program @ URI
2019 Training Workshop Schedule

Do You Want to Install or Design BSF in RI and MA?

We offer required classes (including OWT 105, OWT 125 and OWT 150) throughout the year. Check the schedule for details.

New Class Offering

OWT 192: Recent Advances in Onsite Wastewater Research: Come learn about new practical OWTS research findings developed by URI Laboratory for Soil Ecology and Microbiology (LSEM). Check the schedule for details.

ONLINE REGISTRATIONS ARE NO LONGER POSSIBLE

Sponsored by:
University of Rhode Island College of Environment and Life Sciences - URI CELS
University of Rhode Island Department of Natural Resource Science
USDA National Institute of Food and Agriculture
Rhode Island Department of Environmental Management - RIDEM
Rhode Island Coastal Resource Management Council - RICRMC
Rhode Island Independent Contractors and Associates - RIICA
Consortium of Institutes for Decentralized Wastewater Treatment - CIDWT
US Environmental Protection Agency Region 1 - USEPA

URI Cooperative Extension - NEOWTC
U.S. Department of Agriculture
University of Rhode Island
Kingston, Rhode Island 02881-0804

New England Onsite Wastewater Training Program @ URI
2019 Training Workshop Schedule
<table>
<thead>
<tr>
<th>DATES</th>
<th>TIME</th>
<th>CODE</th>
<th>Fee (early/regular)</th>
<th>CLASS</th>
<th>MA Title 5 TCH</th>
<th>RIDEM CEU</th>
<th>RIDE TCD</th>
<th>NHDES credits hours</th>
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<tbody>
<tr>
<td>Jan. 24</td>
<td>8am-5pm</td>
<td>OWT105</td>
<td>$200/225</td>
<td>Innovative &amp; Alternative (I&amp;A) Technologies</td>
<td>8 SE/SI</td>
<td>4 I - IV</td>
<td>6</td>
<td></td>
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<tr>
<td></td>
<td>8am-5pm</td>
<td>INSP200A</td>
<td>$200/225</td>
<td>Innovative and Alternative Systems Service Provider Program: Part I</td>
<td>8 SI</td>
<td>4 I - III</td>
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<tr>
<td>Feb. 7</td>
<td>8am-5pm</td>
<td>INSP200B</td>
<td>$200/225</td>
<td>Innovative and Alternative Systems Service Provider Program: Part II</td>
<td>8 SI</td>
<td>4 I - III</td>
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<td></td>
<td>8am-12:00pm</td>
<td>INSP200T</td>
<td>N/A</td>
<td>INSP 200 Examination</td>
<td>N/A SE/SI</td>
<td>N/A I - III</td>
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<tr>
<td></td>
<td>8am-5pm</td>
<td>OWT192</td>
<td>$200/225</td>
<td>Recent Advances in Onsite Wastewater Research</td>
<td>8 SE/SI</td>
<td>4 I - IV</td>
<td>TBD</td>
<td></td>
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<tr>
<td>March 7</td>
<td>8am-5pm</td>
<td>OWT105</td>
<td>$200/225</td>
<td>Innovative &amp; Alternative (I&amp;A) Technologies</td>
<td>8 SE/SI</td>
<td>4 I - IV</td>
<td>6</td>
<td></td>
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<tr>
<td></td>
<td>8am-5pm</td>
<td>INSP100B</td>
<td>$230/255</td>
<td>Conventional Onsite Wastewater System Inspection Field Training</td>
<td>6 SI</td>
<td>4 I - IV</td>
<td>N/A</td>
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<tr>
<td>April 25</td>
<td>8am-5pm</td>
<td>OWT125</td>
<td>$200/225</td>
<td>Bottomless Sand Filter (BSF) Design and Installation</td>
<td>8 SE/SI</td>
<td>4 I - IV</td>
<td>3</td>
<td></td>
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<tr>
<td>May 2</td>
<td>8am-5pm</td>
<td>INSP100A</td>
<td>$230/255</td>
<td>Conventional Onsite Wastewater System Inspection</td>
<td>8 SI</td>
<td>4 I - IV</td>
<td>6</td>
<td></td>
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<tr>
<td></td>
<td>8am-5pm</td>
<td>INSP100B</td>
<td>$230/255</td>
<td>Conventional Onsite Wastewater System Inspection Field Training</td>
<td>6 SI</td>
<td>4 I - IV</td>
<td>N/A</td>
<td></td>
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<tr>
<td></td>
<td>8am-5pm</td>
<td>INSP150</td>
<td>$200/225</td>
<td>Functional Inspections</td>
<td>8 SI</td>
<td>4 I - IV</td>
<td>6</td>
<td></td>
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<tr>
<td>June 20</td>
<td>8am-5pm</td>
<td>OWT125</td>
<td>$200/225</td>
<td>Bottomless Sand Filter (BSF) Design and Installation</td>
<td>8 SE/SI</td>
<td>4 I - IV</td>
<td>3</td>
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<tr>
<td>Aug. 22</td>
<td>8am-5pm</td>
<td>OWT100</td>
<td>$200/225</td>
<td>Conventional Onsite Wastewater Treatment Basics for Installers</td>
<td>N/A N/A</td>
<td>4 I - IV</td>
<td>6</td>
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<tr>
<td></td>
<td>8am-5pm</td>
<td>OWT105</td>
<td>$200/225</td>
<td>Innovative &amp; Alternative (I&amp;A) Technologies</td>
<td>8 SE/SI</td>
<td>4 I - IV</td>
<td>6</td>
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<tr>
<td>Sept. 12</td>
<td>8am-5pm</td>
<td>INSP100A</td>
<td>$230/255</td>
<td>Conventional Onsite Wastewater System Inspection</td>
<td>8 SI</td>
<td>4 I - IV</td>
<td>6</td>
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<tr>
<td></td>
<td>8am-5pm</td>
<td>INSP100B</td>
<td>$230/255</td>
<td>Conventional Onsite Wastewater System Inspection Field Training</td>
<td>6 SI</td>
<td>4 I - IV</td>
<td>N/A</td>
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<tr>
<td></td>
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<td>OWT125</td>
<td>$200/225</td>
<td>Bottomless Sand Filter (BSF) Design and Installation</td>
<td>8 SE/SI</td>
<td>4 I - IV</td>
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<tr>
<td>Oct. 10</td>
<td>1:30pm-6:00pm</td>
<td>OWT170</td>
<td>$140/165</td>
<td>Microbiology for Wastewater Professionals</td>
<td>4 SE/SI</td>
<td>2 I - IV</td>
<td>3</td>
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<tr>
<td></td>
<td>8am-5pm</td>
<td>OWT120</td>
<td>$200/225</td>
<td>RI Designer Examination Prep</td>
<td>N/A N/A</td>
<td>N/A N/A</td>
<td>N/A N/A</td>
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<tr>
<td>Nov. 21</td>
<td>8am-5pm</td>
<td>OWT192</td>
<td>$200/225</td>
<td>Recent Advances in Onsite Wastewater Research</td>
<td>8 SE/SI</td>
<td>4 I - IV</td>
<td>TBD</td>
<td></td>
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<tr>
<td>Dec. 12</td>
<td>8am-12:30pm</td>
<td>OWT150</td>
<td>$140/165</td>
<td>AutoCALCS – Automated BSF Sizing, Pump Calcs, &amp; Support Mat.</td>
<td>4 SE/SI</td>
<td>2 I - IV</td>
<td>3</td>
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<tr>
<td>Dec. 12</td>
<td>1pm-5:30pm</td>
<td>OWT160</td>
<td>$140/165</td>
<td>Nitrogen in the Environment and Onsite Wastewater Systems</td>
<td>4 SE/SI</td>
<td>2 I - IV</td>
<td>3</td>
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</tbody>
</table>

**Soils classes with Professor Mark Stolt** (please email Prof. Stolt to register: m.stolt@uri.edu)

- June 5 8:30am-4pm  Soils 101  $150  Introductory Soil Morphology and Evaluation for Siting Onsite Systems (See page 5)
- June 24 8:30am-4pm  Soils 213  $175  Advanced Soil Morphology (See page 5)
- July 1 8:30am-4pm  Soils 313  $175  Soil Evaluation and Morphology (See page 5)

Call (401) 874-5950 if any questions
Early registration fees must be received or recorded by the NEOWTP at least 2 weeks before the scheduled class date.

Space is limited in: OWT125, INS 150 and INS 100B

OWT100 - Conventional Onsite Wastewater Treatment Basics for Installers
This class is preparation for the RIDEM Installer’s Examination, generally scheduled a week following the class. This is a fundamental course to help you understand onsite wastewater system regulations, definitions, and permit requirements. Learn about your responsibilities, RI state regulations, components of a conventional onsite wastewater system and their function, contaminants in septic tank effluent and their fates, soils and wastewater movement and treatment, basic wastewater design overview, installation and construction oversight, operation, maintenance and inspection issues, and general safety issues.
Instructors: NEOWTP staff, RIDEM staff.
Scheduled for August 22 (8am-5pm)
Credits: 4 RI (I-IV)  NO MA  6 NHDES
Registration fee - $200 (early)/$225 (regular)

OWT105 - Innovative and Alternative (I&A) Technologies
This class is required before you can take OWT125 (BSF Class). Learn about the regulatory status of I&A systems; selecting the proper system for your site; the treatment train process and standards; and wastewater distribution issues. We will also teach you about pump controls, alarms, and timers; the basic components common to most I&A technologies; media filters – sand, trickle, foam, peat, textile; fixed activated sludge systems; ATU’s; drainfield options; and operation and maintenance requirements.
Instructors: NEOWTP staff.
Scheduled for Jan. 24, Mar. 7 and Aug. 29 (8am-5pm)
Credits: 4 RI (I-IV)  8 MA (SE/SI)  6 NHDES
Registration fee - $200 (early)/$225 (regular)

OWT120 - RI Designer Examination Prep
This class will prepare you for the RIDEM Class I, II, or III Designer’s Examination. Learn about the types of information and questions that you will need to know to be successful.
Taught in conjunction with RIDEM and NEOWTP staff.
Scheduled for October 31 (8am-5pm)
No Credits
Registration fee - $200(early)/$225 (regular)

OWT125 - Bottomless Sand Filter (BSF) Design and Installation
This class has a prerequisite. OWT105 - “Innovative & Alternative Technologies” must be completed before registering for OWT 125. OWT 125 is required by RIDEM and MADEP before you can design or install a BSF. Please include the date you took OWT 105 when completing registration form. Learn about bottomless sand filter (BSF) designs and where and when to use them. We will teach you all the essentials about design, site preparation and installation sequence. Later in the day we’ll view a demonstration BSF at the NEOWTP Center. Please note class participants will need to walk some distance over uneven terrain while at the NEOWTP Center. Please contact us if you require accommodations.
Instructors: NEOWTP staff.
Class size limited to 25 participants
Scheduled for April 25, June 20, Sep. 19 (8am-5pm)
Credits: 4 RI (I-IV)  8 MA (SE/SI)  3 NHDES
Registration fee - $200 (early)/$225 (regular)

OWT150 - AutoCALCS - Automated Support Materials for Pump Timers, Tanks, Chambers, BSF Sizing, & Buoyancy Calculations
This class is focused on BSF design and provides you with a CD with several spreadsheet programs for your office computer. We’ll demonstrate how to use the spreadsheet programs to run calculations that determine system design requirements. The programs will help you to size a BSF with proper orifice and lateral spacing, and will determine the elevations for all floats and screen vaults, and the required timer run times. Other spreadsheets help you with tank and pump chamber buoyancy calculations and textile filter design.
Instructors: NEOWTP staff.
Scheduled for March 21 (8am-12:30am) & Dec. 12 (8am-12:30pm)
Credits: 2 RI (I-III)  4 MA (SE/SI)  3 NHDES
Registration fee - $140 (early)/$165 (regular)

OWT160 - Nitrogen in the Environment and Onsite Wastewater Systems
Let us teach you about nitrogen transformations in conventional and innovative and alternative wastewater treatment systems. Learn what types of state-approved systems can be used to reduce harmful forms of nitrogen, state and local regulatory requirements concerning nitrogen limitations, and recent research about treatment performance in these systems.
Instructors: Lorraine Joubert (URI NEMO Program) and NEOWTP staff.
Scheduled for Dec. 12 (1pm-5:30pm)
Credits: 2 RI (I-IV)  4 MA (SE/SI)  3 NHDES
Registration fee - $140 (early)/$165 (regular)
OWT170 - Microbiology for Onsite Wastewater Professionals

Microorganisms play a critical role in the transformation, processing, and treatment of wastewater. In addition, numerous types of disease-causing bacteria, viruses, protozoa, and worms may be present in wastewater. Our department expert will instruct you about the microorganisms that are present in wastewater and the dynamic and interactive relationships that occur in onsite wastewater systems and in the soil environment. Instructor: José Amador (URI-NRS Microbial Ecologist).

Scheduled for October 10 (1:30pm-6:00pm)
Credits: 2 RI (I-IV) 4 MA (SE/SI) 3 NHDES
Registration fee - $140 (early)/$165 (regular)

NEW OWT192 – Recent Advances in Onsite Wastewater Research

Come to this class and learn about new practical OWTS research findings developed by the Laboratory for Soil Ecology and Microbiology (LSEM) at URI. This interactive course will cover a variety of topics, including: (1) Nitrogen dynamics in conventional and advanced N-removal technologies, (2) Greenhouse gas emissions from OWTS, (3) Emerging contaminants and their treatment in OWTS, and (4) the impact of climate variability on OWTS performance. Additionally, LSEM scientists will discuss research about performance monitoring of the various types of innovative and alternative technologies we design and install in Southern New England, as well new emerging soil treatment area (drainfield) options designed to remove nitrogen. We'll discuss the importance and reliability of rapid field tests to help us monitor wastewater characteristics and performance in systems in real time.

Course content has been designed to be of interest to installers, maintenance professionals, system designers, municipal officials and members of regulatory agencies. Participants will engage in activities to deepen their understanding of these class topics, get practice analyzing and understanding data, and participate in discussions about how this research influences their everyday practices. Attendees will leave this course with a clear understanding of the current OWTS research being done in the New England region, understand the best practices to mitigate human and environmental problems stemming from poorly designed or functioning OWTS, and understand the importance of sustainable OWTS design and performance as we move into the future. Instructors: NEOWTP staff.

Scheduled for Feb. 28 and Nov. 21 (8am-5pm)
Credits: 4 RI (I-IV) 8 MA (SE/SI) TBD NHDES
Registration fee- $200 (early)/$225 (regular)

Onsite Wastewater System Inspection and Operation & Maintenance Classes:

URI's system inspector registration is required if seeking to work in many Rhode Island towns.

INSP100A - Conventional Onsite Wastewater System Inspection

You will be in the classroom learning about onsite wastewater system inspection techniques, general safety issues, how to use tools and gadgets of the inspection trade and how to recognize typical substandard systems, collecting baseline data, determining solids levels in tanks, and pump out and inspection frequencies. Instructors: Darlene Gardner (Superior Septic Service) and NEOWTP staff.

Scheduled for May 2 and September 12 (8am-5pm)
Credits: 4 RI (I-IV) 8 MA (SI) 6 NHDES
Registration fee - $230 (early)/$255 (regular)

INSP100B - Conventional Onsite Wastewater System Inspection Field Training

Note: You must attend both INSP100A and INSP100B to be eligible for the examination. There will be no make-up examinations. Preference to attend INSP100B will be given to those already registered to take INSP100A. Examination is not required to earn CEU and TCH credits.

The day will begin with a hands-on inspection overview at our NEOWTP Center at URI Peckham Farm. Then we head into the field to conduct 2 actual, blind inspections at existing homes using the standardized RI state inspection procedure. At the end of the day, you may take written and field practical examinations. Participants who pass the examinations will be listed in the URI conventional onsite wastewater system inspectors’ registration and posted to the RIDEM website. Please note class participants will need to walk some distance over uneven terrain while at the NEOWTP Center and during blind inspections. Please contact us if you require accommodations. Instructors: Darlene Gardner (Superior Septic Service) and NEOWTP staff.

Class limited to 25 participants
Scheduled for May 3 and September 13 (8am-3:00pm; with exam to 5pm)
Credits: 4 RI (I-IV) 6 MA (SI) NO NHDES
Registration fee - $230 (early)/$255 (regular)
INSP150 - Functional Inspections
This one-day class focuses on how to perform a functional (point-of-sale) inspection of a conventional wastewater treatment system which is typically done prior to home sales. Topics covered include a brief inspection refresher, elements of a functional inspection, newer tools and techniques, and wastewater management. We’ll go in the field later in the day to perform an actual blind functional inspection. Please note class participants may need to walk some distance over uneven terrain to access blind inspections. Please contact us if you require accommodations. Instructors: Al Rivet (All-Clear Title 5 inspections) and NEOWTP staff.
Class limited to 25 participants
Scheduled for May 16 (8am – 5pm)
Credits: 4 RI (I-IV) 8 MA (SI) 6 NHDES
Registration fee - $200 (early)/$225 (regular)

Soils Courses with Dr. Mark Stolt
PLEASE DO NOT USE THE NEOWTP REGISTRATION FORM TO REGISTER FOR OR INFORMATION ON SOIL COURSES. Please email Dr. Stolt directly at: mstolt@uri.edu
Soils 101: Introductory Soil Morphology and Evaluation for Siting Onsite Systems
June 5 (1-day course) (8am-5pm)
4 RI CEU (I-IV) 8 MA TCH (SE)
Soils 213: Advanced Soil Morphology
June 24 (1-day course) (8am-5pm)
4 RI CEU (I-IV) 8 MA TCH (SE)
Soils 313: Soil Evaluation and Morphology
July 1 (1-day course) (8am-5pm)
4 RI CEU (I-IV) 8 MA TCH (SE)

Descriptions of the soil courses are on our website (http://web.uri.edu/owt/neowt-course-schedule/)

INSP200 (A&B) - Innovative and Alternative Systems Service Provider Program
Examination is not required to earn CEU or TCH credits. This is an intensive course involving two full days of class work (you may attend only one day for TCH’s or CEU’s, but you may not take the test with less than 2 day attendance). The course is followed by a separately scheduled examination as part of a nationally-sanctioned operation and maintenance service provider program developed by the Consortium of Institutes for Decentralized Wastewater Treatment (CIDWT). Topics include: inspecting and maintaining primary treatment and recirculation tanks; various approved advanced treatment systems; controls; pumps; dosing intervals; and safety issues. A written examination will be given on a separate date. Participants who successfully pass the examination will be listed in the URI Operation & Maintenance Service Providers for Innovative and Alternative Onsite Wastewater System Technologies registration and posted to the RIDEM website. Instructors: NEOWTP Staff.
INSP200A : Scheduled for Jan. 31 (8am-5pm)
Credits: 4 RI (I-III) 8 MA (SI) NO NHDES
Registration fee - $200 (early)/$225 (regular)

You must attend INSP200A in order to attend INSP200B

INSP200B: Scheduled for Feb. 7 (8am-5pm)
Credits: 4 RI (I-III) 8 MA (SI) NO NHDES
Registration fee - $195 (early)/$225 (regular)

INSP200T Examination: Scheduled for Feb. 21 (8am-noon)

NEOWTP POLICIES:
(please read, as they may have changed):

Online registration is no longer available.

Mail-in Registrations
To send a registration by mail, you must download a registration form: (web.uri.edu/owt/files/2010REGISTRATIONFORM.pdf) or request one by calling (401) 874-5950 or emailing Lisa Hollister (NEOWTP@uri.edu).

Early Registration Policy
An early registration fee will be awarded for all registrations received or recorded at the NEOWTTC at least 14 calendar days before a scheduled class. The regular fee will apply for those registrations received less than 14 days before a class.

Late Registrations/Walk-ins
An additional fee of $25.00 over the regular registration fee will be assessed for walk-ins and any registrations received less than three days before the class. Some courses may not allow for late registrations or walk-ins when the participant limit is reached, please call or email us in advance. Walk-ins are assisted on a first come first served basis.
Arriving Late or Partial Credit for Partial Attendance
The NEOWTP @ URI has binding agreements with the regulatory agencies through which course credits have been awarded. **NO PARTIAL CREDITS** can be given for partial attendance at any course. There is a sign-in before the scheduled start of class and “head counts” done during class.
If you arrive late, you may sit in the class for information acquisition, but no course credits can be awarded.

Cancellations, Transfers and Other Policies
Should you wish to cancel your registration: we will refund your fee (minus a $25 processing fee) if we receive written notice at least seven (7) days prior to the scheduled class date (written notice is preferred via email: NEOWTP@uri.edu). With the written request, a copy of the URI W-9 form is required (we will email or mail you a copy). Refunds may take 6-8 weeks to complete. In lieu of refunds, a credit to your account for future courses is possible.

**NO SHOWS** on a class scheduled date will forfeit their registration fee.

**TO TRANSFER** to another course, you need to cancel the registration to the previous course (in writing) and register for the new course (cancellation policies apply).

Many classes have a minimum and maximum number of registrants. Should the minimum number not be reached, we reserve the right to cancel the class and return your full fees (or give you credit for future courses), or try to reschedule the class at a later date.

**RETURNED CHECKS:** There will be a $50 fee assessed for these.

**ATTENDANCE RECORDS:** There will be a $30 fee for researching attendance records and re-issuing certificates of attendance for each class already taken. The request and fees must be received by mail.

Notes:
This course schedule and policies are subject to change; please check our website for the most current course and policy information.

**A REGISTRATION CONFIRMATION** will be sent to the email provided on the registration form after the registration and fee has been processed.

**PARKING INFORMATION**, map(s) and class information will be sent to you in a separate email (when applicable) approximately one week before class.

NEW 2018-19 PARKING INFORMATION
**VISITORS MUST REGISTER THEIR CAR WITH URI PARKING SERVICES at** https://web.uri.edu/transportation/parking/visitors/to park in designated visitor parking areas. Visitor passes are valid for one day.

**DIRECTIONS:** All classes will be held in the Surge Building at 210 Flagg Road or at NEOWT Center at Peckham Farm. Directions to the Surge Building and Peckham Farm can be found here: web.uri.edu/owt/directions-and-maps/

We are unable to reserve seats by phone or emails. Class enrollment in some classes is limited (see course descriptions), so please register early to avoid disappointment.

**Inclement Weather**
In the event of imminent inclement weather, and we have not cancelled the course, please call (401) 874-7669 (URI-SNOW) to check if classes are open. If classes are not open we will try to reschedule. If there is inclement weather where you live, use your own judgment when travelling (cancellation fees do not apply).

**Disability Information Statement**
Any NEOWTP class attendee with a documented disability is welcome and encouraged to contact our office at 401-874-5950 as early as possible prior to the class so that we may arrange reasonable accommodations to the extent practicable.