

- NIR Theory
- Population Structuring
- Sample Maintenance
- Calibration Development
- Validation
- Calibration Maintenance

TOPICS COVERED

- NIR Principles and Theory
- Overview of calibration technologies
 - MLR, PLS and ANN
- Calibration development considerations
 - Selection of samples
 - Reference method evaluation
- Calibration technology theory
 - Explanation of statistical terms
 - PCA and PLS
- Database management
- Practice in developing and expanding calibrations
- Strategies to develop calibrations at optimal cost
 - Using PCA and ND
 - MIN files
 - Validation samples
- Validating calibrations
- Customer Questions and Examples

Unity Scientific offers training for the UCal Calibration Software program. The training covers all aspects of NIR calibration as is designed for both analysts new to NIR as well as experienced users that wish to improve their chemometric skills. This course presents the student with a complete explanation of NIR technology and calibration methodologies along with hands on exercises to demonstrate the concepts and solidify the learning experience. Participant will learn how to initiate, develop, evaluate and maintain high performance NIR calibrations at minimal development cost.

Training Course Agenda

Topics range from an explanation of NIR theory and technology through calibration procedures, methods and evaluations and also include advanced topics such as MIN files, on-going validation and maintenance of NIR calibrations.

The course is presented by an experienced Unity Scientific Applied Technology Manager and will include a guest lecture or two from a rotating Unity expert (varies according to class). The course format presents concepts to the class followed by hands-on exercises to provide the students with a memorable and meaningful learning experience.

The course is structured with time for questions as well as time at the end for specific examples from participants. Students are encouraged to bring datasets for group discussions and problem solving.



UCal™ Training Course

Location

Unity Scientific's state of the art technology center is located in Milford, MA, just 40 miles from Boston, MA.

Convenient airports include Logan in Boston (BOS), and T.F. Green in Providence, R.I. (PVD).

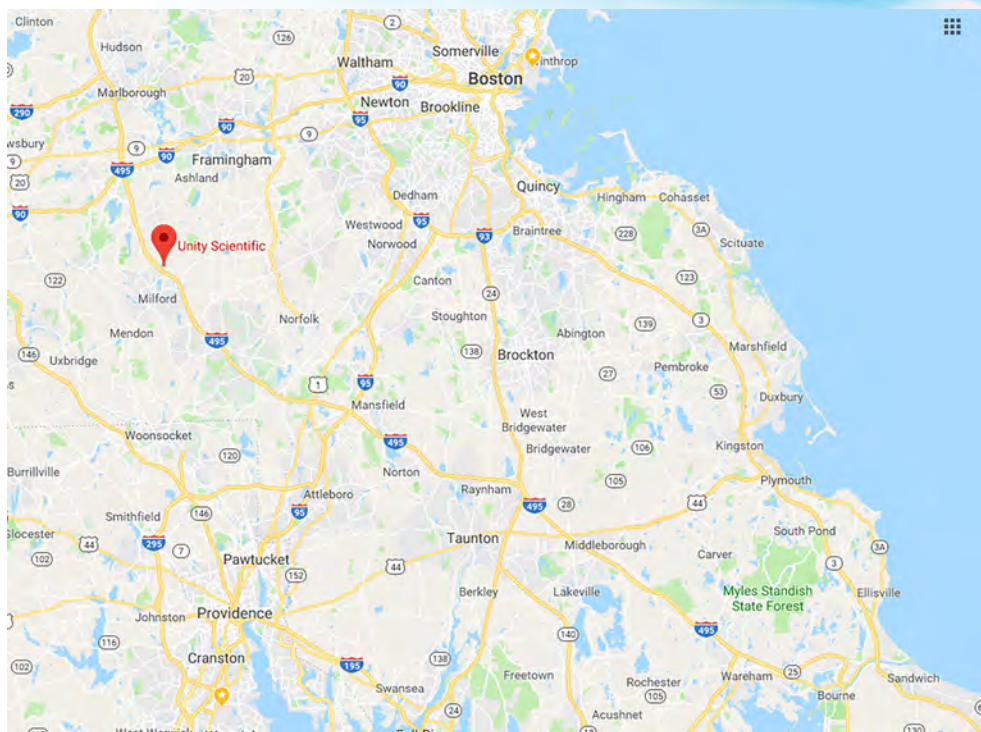
Rental cars are available at any of the above locations or transportation can be arranged.

Specially priced lodging is arranged in Milford, MA, close to many shopping and dining options.

What is Included

The following items are included with class registration:

- 2.5 days training in Brookfield, Connecticut
- All training materials and handouts
- Lunch each day and refreshments for breaks
- Unity Scientific rate at local hotel
- Transportation to and from hotel each day



City	Miles	Km
Boston, MA	40	65
Cape Cod, MA	80	130
Providence, R.I.	40	65
New York, NY	195	320
Salem, MA	60	100

Ordering Information

Part no. US-CALB-0004

Please contact your Unity Scientific Sales Professional for class schedule and more information.

Regional Attractions

Unity Scientific's location in Milford, MA is perfectly placed for exploring the eastern seaboard of the United States. Distances to major cities and attractions are listed to the right. Public transportation is available between the major cities.

Regional attractions include Museum of Fine Arts Boston, Freedom Trail, Bunker Hill, Faneuil Hall, Cape Code and Salem MA.

Additional Options

Transportation to and from Boston can be arranged direct from your hotel at a reduced rate. Unity can assist with recommendations on attractions, show, tickets, shopping etc. to explore while you are visiting. Please give us a call and we will be happy to help you!

Unity Scientific

113 Cedar St. S-3 | Milford, MA 01757 USA
 Phone: 203-740-2999 | Fax: 203-740-2955
www.unityscientific.com | email: info@unityscientific.com

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