

RUTGERS

New Jersey Agricultural
Experiment Station

A photograph of a well-maintained outdoor space featuring a stone-paved walkway, a white door, and a garden bed with various plants and a metal chair. The scene is bright and sunny, with shadows cast across the pavement.

**2008 - 2009
Professional
Landscape Programs**

**Landscape Design,
Construction and Maintenance**

Parks and Public Grounds

Turf, Tree and Pest Management

*Office of Continuing Professional Education
Rutgers Cooperative Extension*

WHAT'S NEW FOR 2008-2009

What's New this Season!

You'll find five or totally revised new courses this year:

- Outdoor Entertainment Spaces
- Sustainable Landscape Design
- Common Sense Business and Pricing Strategies
- Six Elements of a Successful Landscape Business
- Pesticide Calibration
- Community Forestry Management: Your 5-Year Plan
- Park Management and Liability Issues

New Educational Tools

In addition you find new fun and powerful educational technology and distance learning tools in many classes. Basics of Plant Materials, the flagship course in the Rutgers landscape series, has a new condensed schedule (six consecutive Fridays this year instead of 11 half-days), and we've added a new distance learning platform that allows you to access course materials and instruction anytime and anywhere. Those distance learning tools also have been added to the Principles and Practice of Landscape Design and Beds and Borders.

Several classes, including Pesticide Safety and Calibration, also feature a fun, instructive new technology (the same used for audience voting in the "Who Wants to be a Millionaire" game show). The tools allow both students and instructors to instantly and anonymously gauge how well the class is mastering the instructor's key points.

New Website Snow Notifications

In case of snow, ice or other adverse weather conditions, we will post information about class cancellations by 6:00 am on the home page of our website www.cpe.rutgers.edu. In the event you do not have access to the internet, please feel free to call 732-932-9271. **Course cancellations WILL NOT be broadcast on the radio.**

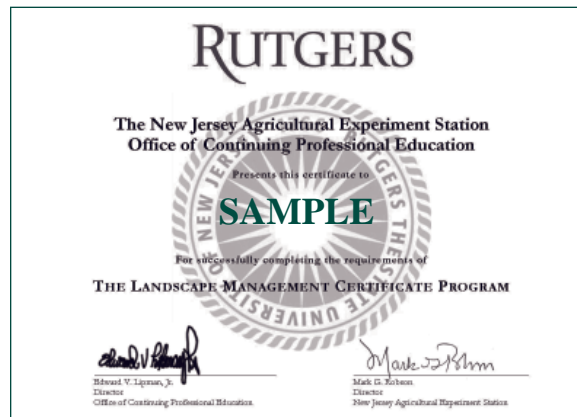
CERTIFICATE PROGRAM

The Landscape Management Certificate

Earn the credential that confirms and advertises your expertise. The Rutgers University Landscape Management Certificate Program covers the core skills that true landscape professionals and enthusiasts should master. Completing the full certificate program provides a credential you can proudly display to your family, friends and clients.

Classes in the certificate series -

- Growing Ornamental Plants (p.5)
- Introduction to Plant Identification (p.5)
- Soil and Plant Relationships (p.6)
- Water Management and Drainage (p.6)
- Introduction to Pruning Techniques (p.7)
- Integrated Pest Management (p.16)
- Basics of Turfgrass Management (p.21)
- Pest Management of Landscape Turf (p.22)
- Pest Management of Ornamental Landscape Plants (p.22)



Frequent Learner Discounts

We've made it simpler for you to save on your training. Any individual or organization qualifies for a 10% discount on all training if they spend \$1,000 or more.

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Questions? Contact Karen Tizzano

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Web: www.cpe.rutgers.edu/landscape

Thinking about a career change?

See page 21 to read about the Rutgers Three-Week Professional Golf Turf Management School program.

FUNDAMENTAL SKILLS

Introduction to Plant Identification

AL0249CA09

November 6 and 7, 2008 9:00am - 3:30pm

\$395 before October 23, 2008; \$445 after

This two-day course will teach you the basics of plant classification and biology to help you better understand how plants are grouped and identified. This course is taught by Certified Tree Expert **Ted Szczawinski**, a professor of plant science and biology in the Bergen County Technical School. He will give you plenty of examples and demonstrations so that you will have confidence in identifying, keying out, and talking intelligently about landscape plants.

This class is recommended for anyone planning to attend the **Basics of Plant Material for Landscape Use** and is also a core class in the *Landscape Management Certificate Program*.

Growing Ornamental Plants

AL0409CA09

February 10, 2009 9:00am - 3:30pm

\$195 before January 27, 2009; \$225 after

This one-day course, taught by **Bruce Neary**, will focus on the factors and horticultural techniques and principles necessary for the preservation and care of ornamental plants in the landscape. He will share the most current practices and research that will allow horticulturists, grounds managers, landscape architects and contractors to manage horticultural crops on commercial and residential sites. Topics to be discussed include: proper planting techniques, matching plants to various site conditions, and dealing with special planting situations.

This is a core class in the *Landscape Management Certificate Program*.

FUNDAMENTAL SKILLS

Soil and Plant Relationships

AL0410CA09

January 26, 27 and 28, 2009 9:00am - 3:30pm

\$395 before January 12, 2009; \$445 after

Soil is the foundation for plant health, success and vitality. **Bruce Neary** will prepare you to identify poor soil conditions that create plant problems and how to deal with and prevent these disorders from arising. This three-day class also focuses on the practical aspects of soil science, along with solving landscape problems with proper plant selection. Take this class in conjunction with **Water Management and Drainage** (below) for a more comprehensive understanding of successful ornamental plant growth.

This is a core class in the *Landscape Management Certificate Program*.

Water Management and Drainage

AL0602CA09

December 17, 2008 9:00am - 4:00pm

\$195 before December 3, 2008; \$225 after

This one-day course was redesigned to focus on the drainage problems and repairs of highest value to you, your customers and their plants. Learn how to evaluate site conditions to make better plant selections and maintenance decisions. Also, learn how to read the landscape, use proper site analysis techniques, maximize water usage with proper grading techniques, solve drainage problems on-site, and understand when and how to use different tools and techniques to solve drainage problems.

This is a core class in the *Landscape Management Certificate Program*.

FUNDAMENTAL SKILLS

Introduction to Pruning Techniques

AL0208CA09

March 10, 2009 9:00am - 12:00pm

\$175 before February 24, 2009 \$195 after

Pruning is both an art and a science. Failing to understand the science of when, where and how to prune can ruin the plant, the landscape and your reputation. In this popular half-day, hands-on course, **Bruce Crawford** will show you how to properly prune your landscape plants while preserving their natural vigor and beauty. Pruning shears will be available, but we recommend you bring your own equipment (if you have it), including hand pruning shears, lopping shears and a small pruning saw. Please dress for fieldwork.

This is a core class in the *Landscape Management Certificate Program*.

Advanced Pruning Techniques

AL0235CA09

March 18, 2009 9:00am - 3:30pm

\$195 before March 4, 2009; \$225 after

This hands-on, one-day program is designed for professionals and homeowners alike who have experience in pruning and shaping plants. It is strongly recommended that you take **Introduction to Pruning** or have a strong background in pruning prior to taking this course. **Pat Cullina**, Vice-President of Horticulture at the Brooklyn Botanic Garden, and **Steve Schuckman**, owner, First Mountain Arboriculture LLC, Certified Tree Expert and Consulting Municipal Arborist, will guide you through classroom and field demonstrations to ensure you gain a strong understanding of how, what, where, when, and why to prune - including specialty pruning techniques such as espalier, hedges and topiaries. Please dress for fieldwork.

DESIGN AND CONSTRUCTION

Basics of Plant Material for Landscape Use

AL0201CA09

January 23, 30, February 6, 13 & 20, 2009 8:30am - 12:00pm
(5 consecutive Friday mornings with an optional day on February 27)
\$795 before December 19, 2008; \$845 after

This flagship course has been reformatted and revised for 2009 with a new schedule and new distance learning tools to make this a 24/7 learning experience. Even with the new technology, it is instructor Steve Kristoph's passion for plants that has made this Rutgers' longest running and most popular course. "No one knows their plants like Steve, or loves them like him. You can't help but love this, too," wrote one student.

And Steve is teaching two of the most important skills any landscape contractor, grounds manager or plant lover should master

- the ability to identify landscape plants on the properties you manage
- expanding your palette of plants to select the right plant for the right site and the right purpose

To master those skills, you will be an active learner with plant identification walks twice each day, and with follow-up assignments delivered through distance learning. Steve has teamed with course founder, **Dr. Bruce "Doc" Hamilton**, a living legend among Rutgers' professors, and a group of dedicated field instructors to ensure every student literally feels the joy of plant identification in the field. "You have to see the plant in its place to understand where it fits in the environment, or where it doesn't fit, which is just as important. You can't get that by showing a twig in a bottle in the classroom," explains Doc about why so many past students love this class' mid-winter plant ID. You also can't get that by looking at pictures on the web.

We recommend that you enroll in Introduction to Plant Identification prior to attending this program. See page 5.

DESIGN AND CONSTRUCTION

Principles and Practices of Landscape Design

NEWLY REVISED

AL0205CA09

March 9, 16 & 23, 2009 9:00am - 3:00pm

\$495 before February 23, 2009; \$545 after

This course, introduced in 2008, has been revised to expand the use of distance learning tools, so your learning experience begins before your first class session and extends well beyond the third and final day. **Bruce Crawford**, Director of the Rutgers Gardens, teams up with landscape designer and former Rutgers landscape program coordinator, **Dominick Mondì**, to introduce you to the broad range of skills that good landscape designers should master. You'll discuss design ideas for patios, back yards, front yards, walkways, firepits, outdoor kitchens and gardens.

Design topics include: Site Analysis, Spatial Analysis, Circulation Study, Designing in Layers, The Design Interview, Creating a Program, Selecting the Right Plant for the Right Place, and Building Your Budget.

With the distance learning tools, you'll have the option of working on design assignments that you can discuss and present in class.

Rutgers Short Courses Now Go Long Distance

Ever since we presented our first workshop during the heyday of Teddy Roosevelt's administration in 1906, the Office of Continuing Professional Education has been known as the "short course office." Now, 102 years later, we've made many "short courses" longer with new distance learning tools that provide anytime, anywhere access to multi-media course materials plus enhanced on-line cooperative learning among active adult learners who share the ideas, insights and solutions that spring from their experience in the workforce.

DESIGN AND CONSTRUCTION

Sustainable Landscape Designs

NEW

AL0222CA09

February 27, 2009 9:00am - 3:30pm

\$195 before February 13, 2009; \$225 after

Homeowners are discovering - and investing in - what good landscape designers have always known: Plants are part of an ecosystem, and sustainable design requires understanding of where, how and why plants fit naturally into their surroundings. Sustainable landscape designs are now one of the hot trends in the landscape market in 2008, according to the Garden Media Group. Take your plant selection skills to the next step - to the ecosystem level - and offer a new service that high-end customers are buying.

Outdoor Entertainment Spaces: Kitchens, Firepits and More

NEW

AL0207CA09

February 11, 2009 9:00am - 3:30pm

\$245 before January 28, 2009; \$275 after

From opulent outdoor kitchen to expansive firepits, outdoor living spaces offer a rare growth opportunity in the landscape market. Designing and installing them, however, require a diverse set of skills - from weather-proof appliance and material selection to lighting and electrical work - that can challenge even experienced landscapers. This one-day program covers all those topics plus the crucial business variables needed to accurately estimate and price a job. Join Rutgers graduate *Alex Burke* for this insider's view into this lucrative but challenging market.

DESIGN AND CONSTRUCTION

Beds & Borders Seminar

AL0213CA09

February 2 and 3, 2009 9:00am - 3:30pm

\$395 before January 19, 2009; \$445 after

This seminar will benefit landscape contractors, designers, grounds managers and enthusiasts in the process of creating and maintaining borders within the residential property. This program will assist the grounds manager in orchestrating and combining herbaceous perennials, bulbs, flowering shrubs, annuals, and small trees, to give the residence year-round interest.

Instructor **Bruce Neary** will carry the participants through such topics as:

- Laying Out the Plans
- Creating the Design
- Site Preparation for Success
- Staying Flexible: The Changing Landscape
- The Big Picture
- Renovating Established Beds and Borders
- Choosing Structural Plants
- Maintenance Considerations

Here's what your colleagues said about Bruce and **Bed and Borders**:

	Excellent	Very Good	Good	Fair	Poor
Bruce Neary	41	4	1	0	0

- "Energetic, enthusiastic, knowledgeable, practical application."
- "Held interest the entire time and was very informative."
- "Passionate."
- "Very interesting and prepared for class. Great teacher of the subject - enthusiastic."
- "Always eager to help. Wonderful knowledge and enthusiasm."

DESIGN AND CONSTRUCTION

Landscape Lighting

AL0501CA09

March 5 and 6, 2009

9:00am - 3:30pm (Day 1); 9:00am - 12:00pm (Day 2)

\$395 before February 19, 2009; \$445 after

Landscape Lighting is a great opportunity to expand your services and value to existing customers. However, working with electricity requires an entirely new skill set and vocabulary. That is what you will learn in this 1½-day class which covers topics such as amps, ohms and volts, as well as design and installation of wired and wireless systems. **Dave Beausoleil** of Cast Lighting, Inc. will show you the basics of lighting installation with hands-on exercises, where every participant will have the opportunity to work with the tools of the trade. Dave also will discuss both design and business strategies.

This class features 6 Landscape Architect credits.

Water Gardens

AL0202CA09

March 12, 2009 9:00am - 3:30pm

\$245 before February 26, 2009; \$275 after

Ponds in the landscape are still in high demand, so take the opportunity in this one-day class to learn the basics of designing and installing ponds. Topics include: filtration and pumping systems, construction techniques, cost estimating and waterfalls. Avoid the costly mistakes others have made. Take this class to understand the proper design and operation of a healthy, sustainable water garden.

This class features 5 Landscape Architect credits.

DESIGN AND CONSTRUCTION

Concrete Pavers

AL0203CA09

February 24, 2009 9:00am - 4:00pm

\$245 before February 10, 2009; \$275 after

Join us in this class to install a residential patio from design to completion on the Rutgers campus. Then join us for pizza to celebrate your work and newly acquired skills! In this one-day class, you will learn the right way to plan and install concrete pavers. Working hands-on with pavers in the classroom, you will learn how to prepare the base and walk away with formulas and secrets for doing the job properly and safely. You will also learn valuable business tips to ensure your hard work is appropriately rewarded and appreciated.

Designing and Installing Segmented Retaining Walls

AL0206CA09

March 4, 2009 9:00am - 4:00pm

\$245 before February 18, 2009; \$275 after

The best way to learn how to build a sound retaining wall is to actually handle blocks, and that is exactly what you will do in this hands-on, one-day class. Concrete block walls can be a high-value addition to your menu of landscape construction services. However, designing and building a sound retaining wall requires an understanding of the engineering forces behind the wall. Good wall builders need skills that are far afield from design and installation of plant materials. Installing a wall that slumps or falls because of failure to properly understand the forces at work can raise expensive liability and profitability problems. This class focuses specifically on those skills needed for success in this line of business.

IRRIGATION SYSTEMS

Irrigation Systems: Design and Installation

AL0601CA09 - 4 consecutive Thursdays

January 15, 22, 29, and February 12, 2009

9:00am - 4:00pm

\$695 before December 31, 2009; \$745 after

This four-day course was designed to meet the requests of the student participants. **Bob Dobson**, former president of the Irrigation Association of New Jersey and a member of the NJ State Licensing Board, will take you through the steps involved with designing and installing an irrigation system from the ground up. Bob is a certified residential, commercial, and golf course irrigation designer as well as a certified irrigation contractor.

This course will help you with, but is not designed to prepare you for, the New Jersey Irrigation Certification Exam.

Here's what your colleagues say about **Bob Dobson** in all Irrigation Classes:

	<u>Excellent</u>	<u>Very Good</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>
Bob Dobson	304	147	44	10	1

- “Wealth of knowledge. Bob is obviously a professional.”
- “A master of his trade. It’s nice to see that always.”
- “Very knowledgeable, very helpful.”
- “Excellent; Great instructor.”
- “Good presenter.”
- “Very Informative; Very good information.”

IRRIGATION SYSTEMS

Irrigation Systems: Repair and Maintenance

AL0603CA09

February 26, 2009 9:00am - 4:00pm

\$245 before February 12, 2009; \$275 after

Once an irrigation system is installed, the ability to troubleshoot repairs on-site becomes a crucial skill for anyone assigned to maintaining the system and surrounding property. This class begins with diagnosing and repairing the four most common problems you will encounter: broken pipes, malfunctioning valves, broken or malfunctioning sprinkler heads, and electrical problems. You'll learn what tools you need in the field to diagnose the problems, and instructor Bob Dobson sets aside time to answer the specific questions and problems that might be plaguing your system.

Irrigation Systems: Scheduling

AL0604CA09

March 2, 2009 9:00am - 3:30pm

\$245 before February 16, 2009; \$275 after

Over-watering by unskilled hands can kill plants and ruin landscapes even more quickly than droughts brought on by Mother Nature. In this class, instructor Bob Dobson introduces the “checkbook method” of irrigation scheduling, which operates just like deposits and withdrawals in your bank checking account. In irrigation, deposits are made by rainfall, withdrawals are made by ET (evapotranspiration), and your opening balance is your current soil moisture level. You will also learn the four key elements of efficient irrigation systems, and how to calculate sprinkler run times and create irrigation schedules.

TURFGRASS AND PEST CONTROL

Integrated Pest Management (IPM)

AL0401CA09

January 16, 22 and 23, 2009 9:00am - 4:00pm

\$395 before January 2, 2009; \$445 after

\$195 (Single Day January 16 *only*)

This two-part class will focus more directly on ornamental plant care. You may take Day One *only* to focus on the philosophy of IPM, or the fundamentals of monitoring and practical strategies for implementing IPM for a business, school or public space. **Day One is a core class in the Landscape Management Certificate Program.**

You may choose to take the full three-day class to develop a deeper understanding of IPM tools, techniques and skills, including: degree day models; biorationale controls; insect and disease identification; improving soil health; and building IPM into your personnel and organizational structure.

Approved Pesticide Credits:

NJ/CT (Day 1): 2 in CORE, 10 in 3A, 6B, 8C, PP2

NJ/CT (3-Days): 5 in CORE, 16 in 3A, 6B, 8C, PP2

NY, PA, DE: Please call 732-932-9271 x625 for credits or visit

www.cpe.rutgers.edu/credits

Day One

- Pesticide Toxicity and Environmental Contamination
- Landscape IPM Philosophy
- Fundamentals of Landscape Monitoring
- Environmental/Abiotic Landscape Concerns (PHC)

Day Two

- Using Growing Degree Days and Plant Phenology
- Diagnosing Ornamental Plant Disorders
- Biorational Pesticides Appropriate for an IPM Program
- Pest Resistant Ornamental Plants

Day Three

- Tree & Shrub Insect/Mite Pest Identification & Control
- Biological Control: Recognizing & Using Beneficial Insects
- Biologically Healthy Soils
- Setting Up an IPM Program

DECEMBER 2008

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday/ Sunday
1	2 Introduction to Small Engine Repair	3 Advanced Small Engine Repair	4 Advanced Small Engine Repair	5 Snow Removal	6/7
8	9	10	11	12 DEP CORE Training - English	13/14
15 Hazard Tree ID	16 Basics of Turfgrass Management	17 Water Management and Drainage	18 Large Tree Climbing	19 Large Tree Climbing	20/21
22	23	24	25	26	27
28	29	30	31		

JANUARY 2009

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday/ Sunday
			1	2	3/4
5	6	7	8 DEPCORE Training -- Spanish	9	10/11
12 Pest Mgmt of Ornamentals	13	14	15 Irrigation: Design	16 IPM	17/18
19	20	21 Pesticide Safety	22 Irrigation: Design IPM	23 IPM Basics of Plant Materials - Day 1	24/25
26 Soil & Plants	27 Soil & Plants Six Key Elements	28 Soil & Plants Insect Pests	29 Irrigation: Design	30 Basics of Plant Materials - Day 2 Pesticide Calibration	31/Feb. 1

FEBRUARY 2009

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday/Sunday
2 Beds and Borders	3 Beds and Borders Park Issues	4 Managing Diseases	5 Pest Mgmt Turf DEP CORE Training - English	6 Basics of Plant Materials - Day 3	7/8
9 Common Sense Pricing Turf Insects	10 Growing Ornamentals	11 Diseases of Ornamentals Outdoor Spaces	12 Irrigation: Design	13 Basics of Plant Materials - Day 4	14/15
16 Plant Health Care	17 Tree Pruning Athletic Fields	18 Hazard Tree ID Athletic Fields	19 Municipal Shade Tree Athletic Fields	20 Basics of Plant Materials - Day 5 Tree Planting & Installation	21/22
23 Project Mgmt	24 Concrete Pavers	25	26 Irrigation: Repair	27 Basics of Plant (optional day) Sustainable Landscape Design	28/March 1

MARCH 2009

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday/Sunday
2 Weeds Irrigation: Scheduling	3 Weeds	4 Regaining Walls Synthetic Fields	5 Synthetic Fields Lighting Spanish: Pruning	6 Lighting (1/2-Day)	7/8
9 P & P of Design	10 Intro to Pruning Intro Small Engine Repair	11 Advanced Small Engine Repair Turfgrass Disease Baseball/Softball Fields	12 Advanced Small Engine Repair Water Gardens Turf Diseases	13	14/15
16 P & P of Design	17	18 Advanced Pruning	19	20 Roadside Vegetation	21/22
23 P & P of Design	24	25 Spanish: Turfgrass	26	27	28/29/30/31

TURFGRASS AND PEST CONTROL

Basics of Turfgrass Management

AT0406CA09

December 16, 2008 9:00am - 3:30pm

\$145 before December 2, 2008; \$175 after

In this highly informative one-day program, you will be introduced to a full range of turfgrass management topics and practices. Taught by **Pedro Perdomo** (Cleary Chemical Co.) and **Nancy Bosold** (Penn State Cooperative Extension), this tag-team will enlighten you and bring turf topics to life. The program covers: prevention and control of turf pests; soils and fertilization; choosing turfgrass varieties; steps to establishing a new lawn, just to name a few.

Approved Pesticide Credits:

- **NJ/CT:** 6 in 3B, PP2
- **NY, PA, DE:** Please call 732-932-9271 x625 for credits or visit www.cpe.rutgers.edu/credits

This is a core class in the *Landscape Management Certificate Program*.

Pesticide Calibration

NEW

AL0404CB09

January 30, 2009 9:00am - 1:00pm

\$195 before January 16, 2009; \$225 after

Sometimes you just have to do the math! And this class will help make your math problems more painless and error-free. Anyone who measures, mixes or calibrates pesticides or fertilizers needs to do the mathematical gymnastics of calculating and converting. Conversions like; acres into square footage (application area) , pounds or ounces of material (chemical amount) to amount of active ingredient (percentage active ingredient) ,ounces per second into gallons per minute (flow rates) feet per second into MPH (speed of applicator.) That's a lot of math and a lot of margin for error for one application, and one mistake at any stage could turn an emerald green lawn into a barren, burned out eyesore. Not to mention the cost in time & money from inaccurate applications.

TURFGRASS AND PEST CONTROL

Pest Management of Landscape Turf

AL0403CA09

February 5, 2009 9:00am - 3:30pm

\$195 before January 22, 2009; \$225 after

Troubleshooting pest problems is a skill customers expect (and demand) from landscape professionals and public grounds managers. Weeds, diseases and insects are ready to victimize weak turf and create an eyesore. In this one-day class, you will learn valuable clues to effectively diagnose and treat insect, disease, and weed problems in turf. Instructor **Rich Buckley** makes his class both fun and ruthlessly practical.

Approved Pesticide Credits: NJ/CT: 11 in 3B, 6B, 8C, PP2

NY, PA, DE: Please call 732-932-9271 x625 for credits or visit www.cpe.rutgers.edu/credits

This is a core class in the *Landscape Management Certificate Program*.

Pest Management of Ornamental Landscape Plants

AL0402CA09

January 12, 2009 9:00am - 3:30pm

\$195 before December 22, 2008; \$225 after

Early recognition, diagnosis, and prompt treatment of disease and insect problems can greatly reduce costly plant damage and death. Prevent the unnecessary loss of expensive trees, shrubs and customers. This one-day course covers identification and control of diseases, and weed and ornamental insect problems in landscape plants. Taught by Extension Specialist **Dr. Ann B. Gould**, this course is the perfect precursor to **Managing Diseases of Ornamental Plants (p.23)**.

Approved Pest Credits: NJ/CT: 2 in CORE; 8 in 3A, 6B, 8C, PP2

NY, PA, DE: Please call for credits or visit www.cpe.rutgers.edu

This is a core class in the *Landscape Management Certificate Program*.

TURFGRASS AND PEST CONTROL

Managing Diseases of Ornamental Plants

AL0408CA09

February 4, 2009 9:00am - 3:30pm

\$195 before January 21, 2009; \$225 after

This one-day, hands-on class is for anyone who wants to get serious about identifying and controlling plant diseases. You will get down to business identifying the agents that can cripple your ornamental plants. This class is a natural follow-up to **Pest Management of Ornamental Plants**. It provides six hours of focused instruction on identification tips, prevention and control strategies, and emerging diseases affecting plants in the northeast.

Approved Pesticide Credits: NJ/CT: 11 in 3A, 6B, 8C, PP2

NY, PA, DE: Please call 732-932-9271 x625 credits or visit www.cpe.rutgers.edu/credits

Managing Insect Pests of Ornamental Plants

AL0406CA09

January 28, 2009 9:00am - 3:30pm

\$195 before January 14, 2009; \$225 after

Controlling insects is a lot more complicated than just applying pesticide controls. To effectively manage insects, you must:

- Identify the insect
- Understand its life cycle
- Distinguish between beneficial and harmful insects
- Apply the right control at the right time

This one-day, hands-on class covers all four of these topics with practical tips and quick identification clues. This course is taught by **Dr. Paula Shrewsbury**, Extension Specialist, University of Maryland.

Approved Pesticide Credits: NJ/CT: 11 in 3A, 6B, 8C, PP2

NY, PA, DE: Please call 732-932-9271 x625 for credits or visit www.cpe.rutgers.edu/credits

TURFGRASS AND PEST CONTROL

Managing Turfgrass Insects

AT0407CA09

February 9, 2009, 2009 9:00am - 3:30pm

\$195 before January 26, 2009; \$225 after

Confront insect infestation by understanding: • Which insects have infested the turf • How severe the infestation is • How to use insect life cycles/biology to control them • How to prevent future problems

This one-day, hands-on course will review common insect pests within our region and their natural enemies in landscape turf. You will learn to successfully identify turfgrass insects and the damage they can cause. This stimulating course will improve your ability to assess the severity of an infestation and select the right control measures based on the insects' biology. This course is taught by **Dr. Albrecht Koppenhofer**.

Approved Pesticide Credits: NJ/CT: 11 in 3B, 6B, 8C, PP2

NJ, PA, DE: Please call 732-932-9271 x625 for credits or visit www.cpe.rutgers.edu/credits

Turfgrass Disease Management

AT0403CA09

March 12, 2009 9:00am - 3:30pm

\$195 before February 26, 2009; \$225 after

This one-day class focuses exclusively on the major turf diseases you will battle in the field. **Rich Buckley**, of the Rutgers Plant Diagnostic Lab, will teach you how to identify and control turf diseases from Dollar Spot to Pythium Blight. Rich emphasizes an integrated pest management approach to identify and alleviate the cause of the problem, rather than repeatedly treating its symptoms.

Approved Pesticide Credits: NJ/CT: 12 in 3B, 6B, 8C, PP2

NJ, PA, DE: Please call 732-932-9271 x625 for credits or visit www.cpe.rutgers.edu/credits

TURFGRASS AND PEST CONTROL

Managing Turfgrass and Landscape Weeds

AT0404CA09

March 2 and 3, 2009 9:00am - 3:30pm

\$395 before February 16, 2009; \$435 after

Landscape managers spend more time and money controlling weeds than insects and diseases. So a clear understanding of weed biology and management strategies is important for successful and profitable landscape businesses. This two-day class will discuss: chemical controls; control strategies for your weed problems; and alternative control strategies. This course also includes hands-on weed identification exercises, weed life cycles, ecology, proper use of mulches and other aspects of a comprehensive weed control program. This course is taught by **Scott Guiser**, Extension Specialist, University of Pennsylvania.

Approved Pesticide Credits: NJ/CT: 8 in 6B; 9 in 3A, 3B, 8C, PP2;

NY, PA, DE: Please call 732-932-9271 x625 for credits or visit www.cpe.rutgers.edu/credits

Pesticide Safety for the Landscape Contractor

NEWLY REVISED

AL0404CA09

January 21, 2009 8:30am - 3:45pm

\$195 before January 7, 2009; \$225 after

Join us for an entirely new flavor of Pesticide Safety Training. This one-day course uses hands-on and interactive exercises to help weave safety procedures into your daily routine. You will cover useful sprayer calibration tips and procedures, daily truck inspection practice on a real spray rig, and a material safety review. Since CORE recertification is required, wouldn't you rather attend a course that will get you out of your seat and let you practice what other courses just describe? If this sounds good to you, come out to our course and break away from the normal avenue of CORE recertification.

SNOW, ROADS AND ROADSIDES

Roadside and Right-of-Way Management

AL0405CA09

March 20, 2009 9:00am - 3:30pm

\$195 before March 6, 2009; \$225 after

This one-day class provides pesticide credits in the right-of-way category, and it focuses exclusively on the challenges of managing vegetation along highways, byways and rights-of-way. Learn how to control the unwanted vegetative growth and discuss when, where and why plant growth regulators may be used. Topics to be discussed include pesticide regulation updates, various application techniques, factors affecting woody stem control, easement pruning, types of equipment and more!

Approved Pesticide Credits: NJ/CT, NY, PA, DE: Please call 732-932-9271 x625 for pending credits.

Snow and Ice Removal

Course Code: AL0236CA08

December 5, 2008 8:30am - 3:30 pm

(Snow Date: December 19, 2009)

\$195 before November 21, 2008; \$225 after

This popular class is revised and updated annually to provide the latest guidance, strategies and solutions for anyone who keeps roads, lots and sidewalks clean in winter. The course includes separate sessions for private contractors and public grounds managers, including schools, colleges and hospitals. General seminar topics include: equipment options, calibrating equipment and use of de-icing chemicals. The Public Sector Session topics include: establishing best practices, designing efficient routes and training strategies. The Contractor Session will focus on strategies to develop snow and ice into a more attractive and efficient line of business.

PARKS AND ATHLETIC FIELDS

Athletic Field Construction & Maintenance

AT0501CA09

February 17, 18 and 19, 2009 8:00am - 4:00pm

\$495 before February 3, 2009; \$545 after

In this highly popular three-day program, you will explore the construction, renovation, establishment and maintenance of athletic fields. This program will benefit both experienced athletic field managers, as well as newcomers to the field. Topics include:

- Designing for Success: Ensuring Proper Drainage
- Turf Establishment
- Renovation Options and Strategies
- Selecting and Evaluating Turf Varieties
- Design and Installation of Irrigation Systems
- Basics of Soil Science and Strategies to Combat Compaction
- Safety and Liability Issues
- Insect, Disease and Weed Control Recommendations
- Striping, Lining and Painting

Understanding Synthetic Fields

AT0502CA09

March 4, 2009 8:00am - 12:00pm

\$145 before February 18, 2009; \$175 after

This half-day course will expose the pros and cons of installing and maintaining a synthetic athletic field. The class begins with a discussion of issues to consider during the buying process. Then, you'll learn about proper steps for construction and installation of synthetic fields, as well as independent testing criteria for fields. For safety and liability protection, synthetic fields should meet ASTM standards for shock absorbing capacity. Finally, the class will cover maintenance strategies. If your community, school or program is considering installing a synthetic field, this may be the most valuable morning you can spend.

PARKS AND ATHLETIC FIELDS

Athletic Baseball/Softball Fields

AT0503CA09

March 11, 2009 8:00am - 12:00pm

\$145 before February 25, 2009; \$175 after

This half-day course will examine how to select the proper infield mix for your facility based on your site-environment and management regime. Additionally, construction of skinned areas, pitchers' mounds, and batters' boxes will be detailed, as well as proper management techniques for these areas.

Park Management and Liability Issues **NEW**

AL0901CA09

February 3, 2009 9:00am - 3:30pm

\$195 before January 20, 2009 \$225 after; \$175 single day

We have combined two of Rutgers most popular instructors to help you better manage your park's largest expense (personnel) and its greatest financial risk (legal liability). Personnel may be a your budget line item, but your staff also is your park's most valuable asset. Without their effort and commitment, a park jewel can slowly deteriorate into an eyesore. And as park budgets tighten and positions go unfilled, park managers literally must get more done with fewer people. Ned Lipman, Director of Continuing Professional Education and popular management instructor, will introduce you to new ideas and strategies to gain commitment from even your most hardened crew members. On the liability side, park managers must take active steps to identify, remove and prevent potential risks before a park injury becomes a lawsuit. Professor Neil Dougherty, who serves as an expert witness in park injury cases nationwide, will introduce both the thought process and preventative steps that keep good park managers out of the courtroom.

ARBORICULTURE

Hazardous Tree Identification

AL0803CA09 - Fall Session

December 15, 2008 9:00am - 3:30pm

\$245 before December 1, 2008; \$275 after

AL0803CB09 - Spring Session

February 18, 2009 9:00am - 3:30pm

\$245 before February 4, 2009; \$275 after

Hazardous trees pose a double danger. They are tough to recognize, and they can be costly – and even deadly – if not managed before an avoidable accident happens. In this one-day course, Certified Tree Experts, **Ted Szczawinski** and **Steve Chisholm**, will walk you through the step-by-step process of identifying a hazard, dealing with the hazard, and properly documenting your findings and any work performed. This course offers credits for ISA Certified Arborists and Community Foresters as well as 5 Technical hours for Certified Public Works Managers. **For current credit information** visit www.cookce.rutgers.edu/credits or call us at 732-932-9271 x625.

Large Tree Climbing and Rigging

AL0802CA09

December 18 and 19, 2008 9:00am - 3:30pm

\$395 before December 4, 2008; \$445 after

You don't need to sacrifice safety for speed! In this two-day class, discover the techniques that increase your productivity while maintaining the high level of safety that is the mark of a good arborist. **Steve Chisholm**, a Certified Tree Expert and leading arboriculture educator, and his brother, **Mark Chisholm**, a two-time World Champion and 16-time New Jersey State Tree Climbing Champion, will combine classroom lectures with field demonstrations of climbing and rigging techniques. **For current credit information** visit www.cookce.rutgers.edu/credits or call us at 732-932-9271 x625.

ARBORICULTURE

ARBORIST CLASSES!

Best Management Practice Series for Ornamentals and Shade Trees: *Four One-day Classes*

This series of four new one-day courses will help you manage your trees more safely, intelligently and cost-effectively by sharing emerging best practices. You will learn ways to increase productivity and reduce costs while becoming more environmentally friendly and adopting the new ANSI-300 standards that govern tree care. Our instructors are industry leaders who will translate the standards into clear, easy-to-understand specifications, procedures and methods.

Tree Pruning

AL0806CA09

February 17, 2009 9:00am – 3:30pm

\$245 before February 3, 2009; \$275 after

The ANSI standards dictate how to properly perform pruning, cabling and bracing work, and this class will explain how to meet those hard-to-understand standards. You will learn:

- Crown raising, thinning, cleaning and reduction pruning
- Where to prune: identifying the branch collar, branch bark ridge and proper location of the final cut while avoiding lion tailing
- Understand timing of pruning schedules
- Sanitation of tools and plants affected by pests and disease
- Production practices for safe and effective operations. Choosing the right equipment and tools for the job
- When and how to use cabling and bracing hardware along with standardized hardware requirements to increase your productivity

Outdoor, hands-on demonstrations will be included if weather cooperates. This class should be attended by arborists, as well as sales, production and office staff for nurseries and other industry professionals increased efficiency.

ARBORICULTURE

Plant Health Care and Prescription Fertilization

AL0804CA09

February 16, 2009 9:00am – 3:30pm

\$245 before February 2, 2009; \$275 after

Customizing treatments for nutrient deficiencies is not just good plant health care, it is also a valuable new service offered by conscientious arborists. Yet, the complexity of the issues and products can be intimidating. Which products are truly worthwhile and which are just sales hype? This class will provide answers on a wide range of issues, such as: water soluble versus WIN; Bio-stimulants; Mycorrhizae or compost tea; trunk injection or implants; pH; micronutrients; and proper timing of applications. Cultural, biological and chemical control strategies and the Growing Degree Day (GDD) method of tracking pests and diseases will be outlined and detailed for effective use and marketing. Hands-on outdoor demonstrations will be provided (weather permitting).

Tree Planting and Installation

AL0805CA09

February 20, 2009 9:00am – 3:30pm

\$245 before February 6, 2009; \$275 after

Proper planting is far more than digging holes; it can literally determine life or death for a tree. You first must match the plant with the conditions of your site and then determine proper excavation depth and width. You also need to identify girdling roots and the location of trunk flares - then use suitable backfill to create good soil structure. You will learn how to take control of the process with detailed specifications to assist in evaluating, preserving and remediating trees on construction sites. Hands-on outdoor demonstrations will be provided if the weather cooperates.

ARBORICULTURE

Municipal Shade Tree Management

AL0807CA09

February 19, 2009 9:00am – 4:00pm

\$245 before February 5, 2009; \$275 after

Communication is the number one challenge in shade tree management, and this one-day class provides new tools and strategies to communicate more clearly with your most important constituents.

To communicate more effectively with tree care contractors, builders and engineers, you'll leave with detailed specifications to ensure a higher level of efficiency and accountability. To communicate more effectively with residents, elected officials and the media, you will learn new visual tools to create and manage shade tree inventories with GIS (Geographical Information Systems).

You will also review and receive a municipal shade tree ordinance database that is provided to all course participants. In addition, you will learn new technical skills that include: tree selection based on site conditions, size requirements and quality standards; pruning using the new ANSI guidelines; removal; cost and timing strategies; and Plant Health Care featuring safe and effective cultural practices that may add years to your existing urban forest.

This course is recommended for municipal staff and administrators responsible for shade tree operations, shade tree commission and advisory board members, tree and landscape contractors and township engineers.

Here is why students love instructor **Ted Szczawinski**:

- “Very interesting. Knowledgeable.”
- “I never give ‘E’s’, but your presentation was!”
- “Very informative. Very good information.”
- “Very good about explaining all aspects of the course.”

ARBORICULTURE

Community Forestry Management: Working Through Your 5-Year Plan

NEW

AL0808CA09

April 7, 2009 9:00am - 3:30pm

\$245 before March 24, 2009; \$275 after

Writing annual reports and meeting the goals of your community forestry management plan can be a challenge. Getting the stakeholders on the same page, completing core training, and addressing continuing education are the precursors to getting trees planted and your urban forest managed properly. With the time constraints of volunteer hours and limited meeting dates the 5 year plan and its yearly goals can get away from you quickly; re-trends and new projections are a reality and can assist with gaining control as your team prepares for the submission of the next 5 year plan. Learn the techniques and strategies to stay ahead of the deadlines and avoid the pitfalls of unrealistic goal setting while maintaining a successful CFMP that allows you to create a safe and healthy urban forest.

Ted and Steve are a great team!
Here are some comments from your colleagues:

- “Very good knowledge and caring about the subject” (Steve)
- “Confident style and good use of humor.” (Ted)
- “Passion for subject shows.” (Steve)
- ”Very knowledgeable; very helpful.” (Ted)
- “Very interesting and knowledgeable.” (Steve)
- “Easy to listen to!” (Ted)
- “Excellent job as team teachers - really enjoyed the class.” (Both)

BUSINESS AND EQUIPMENT

Introduction to Small Engine Repair

AL0209CA09 - Fall Session

December 2, 2008 9:00am - 3:30pm

\$275 before November 18, 2008; \$295 after

AL0209CB09 - Spring Session

March 10, 2009 9:00am - 3:30pm

\$275 before February 24, 2009; \$295 after

Learn the keys to preventative maintenance and protect your equipment investment without waiting for or paying someone else to do it! **Kurt Frede**, of Gardner Inc., will reveal the top reasons engines fail and teach you how to maintain and perform routine repairs, without voiding your warranty. This hands-on class gives you answers to your specific questions - something a manual or video cannot deliver.

Advanced Small Engine Repair

AL0210CA09 - Fall Session

December 3 and 4, 2008 9:00am - 3:30pm

\$495 before November 19, 2008; \$545 after

AL0210CB09 - Spring Session

March 11 and 12, 2009 9:00am - 3:30pm

\$495 before February 25, 2009; \$545 after

In this two-day program, instructor **Kurt Frede** uses a complete “tear down” and rebuild of a 4-cycle Kohler engine to demonstrate maintenance and repair of small engines. You will walk away with these skills: knowing why and how to adjust the governor, making carburetor adjustments, selecting the best oil and gas types for the season and your equipment, and understanding and avoiding common problems like vapor lock. Your investment in this class will be your first step in saving countless repair dollars and time!

BUSINESS AND EQUIPMENT

Common Sense Business and Pricing Strategies for the Landscape Contractor **NEW**

AL0307CA09

February 9, 2009 9:00am - 4:00pm

\$195 before January 26, 2009; \$235 after

Tight times demand smart business decisions. Spend a day with two of New Jersey most experienced landscape contractors in this new course to discuss:

- **Pricing and selling jobs** – It's tough to resist price cutting to win a job, but how low is too low? How much negotiation room should you build into a price?
- **Cost estimating strategies** – Unless you're covering your full costs, you might be slowly losing money on every job.
- **Job costing and tracking** – Setting a good price depends on knowing your individual cost of service. Make sure you become a better estimator with each job – and then once you win the job, make sure manage the P/L.
- **Q&A** -- You'll have wide open class time to leave with answers to the specific concerns facing your business.

Introduction to Project Management

AL0309CA09

February 23, 2009 9:00am - 3:30pm

\$245 before February 9, 2009; \$275 after

This class was revised in 2007 to expand the project management focus to include the key profit-and-loss and productivity topics of: Budgeting the Project, Estimating and Bidding the Project, Job Costing Strategies that No Project Manager Can Afford to Live Without, Managing Your Time and Your Crew's on the Project, Selling the Project. Record-keeping for Success (so that your great work always contributes to the bottom line), and "Projects You'll Never Forget" (because we often learn more from our failures than from our successes).

Instructor **Chris James** will walk you through payment schedules, punch lists, and maintaining long-term customer relationships.

BUSINESS AND SPANISH LANGUAGE CLASSES

The Six Key Elements of Success for Landscape Contractors

NEW

AL0306CA09

January 27, 2009 9:00am - 3:30pm

\$195 before January 13, 2009, \$225 after

In rough real markets, landscape companies must improve on multiple fronts to survive and thrive. That means honestly analyzing strengths and weaknesses, and it means executing on six key elements of success:

- Effective leadership
- Production & overhead systems
- Implementing change
- Business & strategies planning
- Production feedback through job costing
- Employment accountability

Taught by industry consultant Marcus vandeVliet, who leads the ANLA's Masters in Landscape Business Management Program, this course provides solutions that you can implement immediately.

Entrenamiento Básico del Pesticida CORE Certificación del Aplicadores y Operadores

El Precio Regular \$129.00 El Tiempo: 8:00am - 12:00pm

El Precio para cada persona en grupos menos de 10 \$99.00

El Precio para cada persona en grupos 10 o más \$89.00

En El Departamento de Protección del Medio Ambiente de NJ (NJDEP), a través las regulaciones del programa de control pesticidas incluyen requisitos de entrenamiento para los nuevos aplicadores y operadores comerciales. Las personas nunca autorizadas y los que no han mantenido su certificación, deben completar estos requisitos de entrenamiento para ser autorizado. El entrenamiento para un nuevo aplicador comercial o el operador es incluido en un curso de aprendizaje aprobado básico del pesticida, y 40 horas de práctica en el trabajo para ser competente en las funciones del uso de pesticidas. Al completar este curso se realiza 6 créditos a los aplicadores autorizados que necesitan estar re-certificado. Los cursos bilingües se enseñan en inglés y español.

SPANISH LANGUAGE CLASSES

Temas Básicos del Mantenimiento del Césped

(Basics of Turfgrass Management)

AL0701CA08

25 de marzo 2008 (March 25, 2009) 9:00am - 3:30pm

\$175 antes de 11 de marzo 2009; \$195 después

Este curso incluye todo los temas básicos para aprender como poder mantener un césped verde y saludable.

- Las especie de uso en New Jersey y el noreste del país
- La fertilización, el riego, y el corte del césped
- Pasos de establecimiento para los céspedes nuevos
- La Renovación del césped
- El manejo integrado de las plagas del césped
- La identificación de las malezas comunes y su control

Pedro Perdomo es Agente de Agricultura para el Condado de Morris. El hizo una maestría en el manejo de césped.

Introduccion a las Tecnicas de la Poda y de la Plantacion

(Introduction to Pruning and Planting Techniques)

AL0704CA08

6 de abril 2009 (April 6, 2009) 9:00am - 3:30pm

\$175 antes de 23 de marzo 2009; \$195 después

Este curso cubrira los temas de importancia para la poda y la plantacion de arboles y arbustos. Los temas incluyen la seleccion y mantenimiento de las herramientas para la poda y los diferentes tipos de cortes recomendados. Otros temas incluyen la cavacion del hoyo correcto, el cuidado de la bola radicular, y el riego y fertilizacion de arboles recientemente transplantados.

Pedro Perdomo es Agente de Agricultura para el Condado de Morris. El hizo una maestría en el manejo de césped.

REGISTRATION INFORMATION

Frequent Learner Discounts

We have made it simpler for you to save on your training. Any individual or organization qualifies for a 10% discount on all training if they spend \$1,000 or more on the total registration fee.

Master Gardener Discount

Master Gardeners will be eligible to receive a 10% discount on most programs by including their certificate with registration. Courses with limited space availability may be excluded.

Continuing Education Credits

Many courses offer a wide range of credits from several different states which include: New Jersey, New York, Pennsylvania, Connecticut and Delaware. Credits include: pesticide recertification, CPWM (Certified Public Works Managers), landscape architecture, ISA (International Society of Arboriculture), forestry, TCH (Treatment Systems Operators) and others.

For a complete list of credits, please visit our website at www.cpe.rutgers.edu/credits or call Karen at 732-932-9271 ext. 625 for further credit information on classes in this catalog.

Inclement Weather - If winter weather is threatening, we will post information about class cancellations by 6:00am on the home page of our website - www.cpe.rutgers.edu.

Although this eliminates the need to call, you can still check in at 732-932-9271 if you prefer. Cancellations will not be broadcast on the radio.

REGISTRATION INFORMATION

Course materials, a continental breakfast and lunch are included in your registration fees (unless otherwise specified). Most classes will be held in the New Brunswick, NJ area. All registrants will receive a confirmation letter or email including a map with directions to the course location.

Phone - (732) 932-9271, 8:00am to 4:30pm EST, M-F
Please have your Visa, MasterCard or AMEX number ready.

Fax - (732) 932-8726, 24 hours
Please fax credit card information or a copy of your check, money order or purchase order with your registration.

Mail - Registration Desk, NJAES Office of Continuing Professional Education, Rutgers University, 102 Ryders Lane, New Brunswick, NJ 08901-8519

Online - www.cpe.rutgers.edu

Please make checks payable to: Rutgers University.

Payment Policy - To guarantee your seat in a course, all payments must be received prior to the start of the program. Registration is accepted on a first-come, first-serve basis. Registrations will not be accepted without a payment method noted.

Cancellation Policy - You may withdraw from one of our classes up to three full business days before the course begins and receive a full refund, less a \$35 processing fee. If our registration unit is not notified at least three business days prior to the start of the class, you may be responsible for the full fee. Substitutions are permitted.

NJAES Office of Continuing Professional Education
Rutgers, The State University of New Jersey
102 Ryders Lane, New Brunswick, NJ 08901-8519
Ph: (732) 932-9271 **Fx:** (732) 932-8726
Email: ocpe@njaes.rutgers.edu

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Employer _____ Job Title _____
Mailing Address _____
Zip _____ City _____ State _____
Work _____ Home _____
Fax _____ Cell _____
Email _____

**Please register me for these
2008-2009 Professional
Landscape Program(s):**

<u>Course</u>	<u>Date</u>	<u>Code</u>	<u>Fee</u>
_____	_____	_____	_____
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METHOD OF PAYMENT

Check, money order or purchase order
 VISA MasterCard AMEX

Card Holder's Name (print) _____
Signature _____
Card Number _____
Expiration Date _____ Billing Zip _____

Yes, I want to be informed about courses and related information
through periodic messages from Rutgers via:
 Email Fax (check all that apply)

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