

Introduction to

# Object-Oriented Modeling and Unified Modeling Language (UML)

SPECIALIZED TRAINING FOR THE COMPUTER PROGRAMMING PROFESSIONAL

- March 2 & 3, 2005
- University of Florida  
Distance Education  
Learning Center  
Room G001
- McCarty Building D  
Gainesville, Florida



UNIVERSITY OF  
FLORIDA

Institute of Food and Agricultural Sciences

University of Florida/Institute of Food and Agricultural Sciences  
Information Technologies Office  
<http://conference.ifas.ufl.edu/UML>

# UML

Gainesville, FL March 2 & 3, 2005

This exclusive training program will teach students the basic concepts of the object-oriented paradigm using the Unified Modeling Language (UML). Students will be introduced to concepts such as abstraction, polymorphism and encapsulation, and will learn how to use these concepts in object-oriented software development.

This short course will help attendees understand what classes, attributes and methods are, and how they can be used to build software. The course will introduce the basics of the UML and demonstrate how to build several UML diagrams required for software development.

Students will receive hands-on training using UML software, and several diagrams will be built to demonstrate the capabilities of UML for software development.

The course provides 14 hours of training and instruction, and a Certificate of Completion will be provided upon conclusion. Enrollment is limited, so register early to secure a seat in the course.

// The Unified Modeling Language (UML) is the primary modeling language. In order to succeed in software development, you must master it and Petraq Papajorgji can help you do that.

He not only has the technical background and expertise essential to be an instructor, he is very patient, which is crucial when teaching a programming language so it is fully understood.

Petraq has been a leader and a mentor to me, and thanks to him, I have been promoted to team leader on my current project. I would encourage any one who wants to further their career in programming to participate in this course. //

Edward Yeldell,  
Senior Software Engineer  
MATCOM, Inc.  
Alexandria, Virginia  
PH 202-942-4948  
YeldellE@sec.gov

Introduction to Object-Oriented Modeling and

# Unified Modeling Language

SPECIALIZED TRAINING FOR THE COMPUTER PROGRAMMING PROFESSIONAL

## Who Should Attend?

Participants should be interested in or actively involved in using the Object-Oriented Modeling and Unified Modeling Language (UML) for program design. Those employed in the following occupations would greatly benefit by participating in this course:

- Agricultural Engineers
- Agronomists
- Extension Agents
- IT Managers
- Programmers
- Project Managers
- City and County Government IT Staff
- Soil Scientists
- Foresters
- Land Use Planners
- Hydrologists
- Academicians and Faculty Members
- Client-server and Web Developers
- Data Modelers
- Others Seeking Training in Object-Oriented Modeling and the Unified Modeling Language

## Six Ways to Benefit

1. Learn the fundamentals of the object-oriented approach.
2. Learn how to approach a new problem.
3. Analyze a problem without focusing on the details of a language.
4. Communicate models/software with stakeholders in plain English.
5. Automatically create code from UML diagrams.
6. Get specialized training in cutting-edge technologies.

## Course Information

### Course Instructor

Dr. Petraq Papajorgji is a member of the Software Group at the Information Technologies Office at the University of Florida, Institute of Food and Agricultural Sciences. He has more than 20 years of experience in developing software, and has been a software consultant with IBM, Florida Power & Light and SSI International. He has been part of a group that has organized several similar short courses internationally in a number of countries including Brazil, Greece and Mexico. His expertise is in modeling using UML and the object-oriented paradigm. For more information about Dr. Papajorgji, visit his home page at: <http://petraq.ifas.ufl.edu>



### Training Site

This course will be held on campus in the University of Florida's Distance Education Learning Center located on the first floor of McCarty Hall D, Room #G001. A map with detailed directions and a UF parking permit will be mailed to you upon receipt of your registration.

<http://conference.ifas.ufl.edu/UML>

## Application/Registration

### Registration Fee

*All figures are presented in US dollars (\$).*

Early Reduced Registration: (Before February 1, 2005 or until the course is full)	\$495
Regular Registration: (After February 1, 2005)	\$595

### What Does the Fee Include?

The full registration fee includes instructional materials on CDROM, and a laptop will be provided for each group of two participants. Participants are on their own for all meals. Enrollment in this course is limited to the first 20 participants, and registrations will be accepted on a first-come, first-served basis.

### REFUND POLICY

Requests for registration refunds will be honored if the Office of Conferences and Institutes receives written notification on or before February 15, 2005. A \$125.00 processing fee will be deducted from all refunds. Sorry, no refunds will be honored for cancellations after February 15, 2005.

### SPECIAL NEEDS

Participants with special needs can be reasonably accommodated by contacting the Office of Conferences & Institutes at least 10 working days prior to the conference. We can be reached by phone at 1-352-392-5930, by fax at 1-352-392-9734, or by calling 1-800-955-8771 (TDD), within the state of Florida.

## Daily Agenda

### Wednesday & Thursday, March 2 & 3, 2005

8:00am – 5:00pm	Course Training
12noon to 1:00pm	Lunch on Own

## Course Topics

### Course Topics

- Fundamentals of the object-oriented paradigm
- Fundamental concepts of the UML
- Modeling system behavior with use-cases
- The use-case model
- Interaction diagrams
- Class diagrams
- Sequence diagrams
- Forward and reverse engineering demo
- Simple project developed using object-oriented principles and UML

### Expected Results

- Understand the basic principles of the object-oriented paradigm
- Understand what the UML represents
- Understand abstraction, encapsulation, modularity and hierarchy
- Build the physical structure of a class
- Understand the differences between a class and an object
- Understand how objects communicate with each other
- Understand the reverse engineering-process

## Hotel Information

Several hotel and motel establishments are available in the Gainesville area to provide guest room accommodations throughout the course. Participants are responsible for making their own hotel guest room reservations, and a list of properties and guest room rates will be sent to you upon confirmation of your registration.

## 3 Easy Ways to Apply

### 1. ON-LINE:

If paying by credit card, conveniently register on-line via the course web site:  
<http://conference.ifas.ufl.edu/UML>

### 2. BY FAX:

If paying by credit card, complete and FAX the registration form in this brochure.

### 3. BY MAIL:

If paying by check, money order or purchase order, complete the registration form, and mail it along with payment to the University of Florida, IFAS Office of Conferences & Institutes (OCI) as directed on the form.

**NOTE:** To qualify for the reduced early registration fee, payment must accompany your registration and be postmarked by or before the early registration deadline of **February 1, 2005**. A receipt and confirmation of registration will be mailed within 10 working days upon receiving your completed registration and proper payment.

## Questions?

### Registration Information:

UNIVERSITY OF FLORIDA/IFAS  
OFFICE OF CONFERENCES  
& INSTITUTES (OCI)  
Building 639 Mowry Road  
PO Box 110750  
Gainesville, FL 32611-0750  
PHONE: (352) 392-5930  
FAX: (352) 392-9734  
EMAIL: [conf@gnv.ifas.ufl.edu](mailto:conf@gnv.ifas.ufl.edu)

### Training Information:

Petraq Papajorgji – Course Organizer  
University of Florida / IFAS  
Information Technologies Office  
PO Box 110495  
Gainesville, FL 32611-0495  
PHONE: (352) 846-3219  
FAX: (352) 392-5857  
EMAIL: [petraq@mail.ifas.ufl.edu](mailto:petraq@mail.ifas.ufl.edu)



IFAS

Object-Oriented and Unified Modeling Language
University of Florida/IFAS
Office of Conferences & Institutes (OCI)
Building 639 Mowry Road
PO Box 110750
Gainesville, FL 32611-0750

Object-Oriented Modeling and the Unified Modeling Language (UML) Registration Form
March 2 & 3, 2005 • Gainesville, FL USA
PLEASE PRINT Project # 2005-10

Name:(first) \_\_\_\_\_ (last) \_\_\_\_\_

Affiliation: \_\_\_\_\_

Business Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ FAX: \_\_\_\_\_ Email: \_\_\_\_\_

Registration Fee (The registration fee includes one copy of instructional materials on CDROM, and a laptop will be provided for each group of two participants. Participants are on their own for all meals. Enrollment in this course is limited to the first 20 participants, and registrations will be accepted on a first-come, first-served basis. )

\$495 Early Reduced Registration Fee (Before February 1, 2005, or until course is full.)

\$595 Regular Registration Fee (After February 1, 2005, if space is available.)

Early registration deadline is February 1, 2005. To qualify for the early registration fee, payment must accompany this registration form.

CONVENIENTLY REGISTER IN ONE OF THREE EASY WAYS:

- 1.) ONLINE: If paying by credit card, conveniently register online via the institute website located at: conference.ifas.ufl.edu/UML
2.) BY FAX: If paying by credit card, complete and FAX your registration to: (352) 392-9734.
3.) BY MAIL: Make check, money order or purchase order payable to UF Leadership and Education Foundation (UFLEF), complete the registration form and mail it with payment to:
UML Short Course
UF/IFAS Office of Conferences & Institutes (OCI)
PO Box 110750
Gainesville, FL 32611-0750
PHONE: (352) 392-5930

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Signature: \_\_\_\_\_

- If making payment for multiple registrants, submit a form for each person and list all names on the form of payment. This will ensure proper crediting for each registrant.
• Payment receipts will be mailed within 14 days of receiving your registration.

Refund Policy: Requests for registration refunds will be honored if written notification of cancellation is received by the Office of Conferences & Institutes on or before February 15, 2005. A \$125.00 processing fee will be deducted from all refunds. Sorry, no refunds will be honored for cancellations after February 15, 2005.

OFFICE USE ONLY Receipt #: \_\_\_\_\_ Check #: \_\_\_\_\_ Cash: \_\_\_\_\_
Date received: \_\_\_\_\_ PO #: \_\_\_\_\_ Money Order: \_\_\_\_\_ Amount received: \_\_\_\_\_