



z Series

# Marist z/OS Certificate Program

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**Director of Enterprise Computing Education,  
Marist College**

# Agenda

- ***Marist z/OS Programs***
  - ***On Line z/OS Certificate Program***
  - Marist Undergraduate Program
- **Marist “Knowledge Center” Server**

# Marist on line z/OS Certificate Program

## Mainframe Training for IT Professionals

### Distinguishing

- Characteristics:**
- Available worldwide
  - Comprehensive content
  - Technology Focused, Business exposure
  - Taught by System z industry experts
  - Continual Student Assessment
  - "Hands on" with TSO/ISPF and 2<sup>nd</sup> level z/OS (under z/VM)
  - Reasonable Pace
  - Cost Effective

# Marist z/OS Certificate Program

## ■ **Format & Delivery**

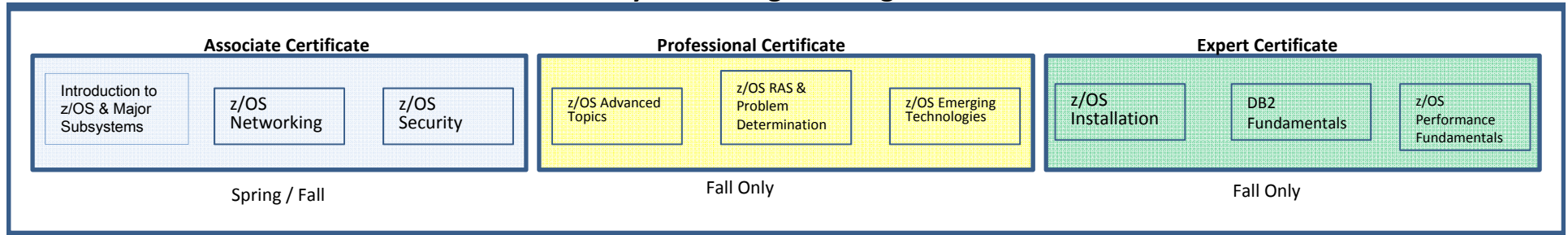
- Fully online, web based delivery
  - iLearn/Sakai course management system
  - Learn at your convenience – no “in class” or “meeting” times
- 10 and 12 week courses
- Instructor led - not self paced

## ■ **Cost**

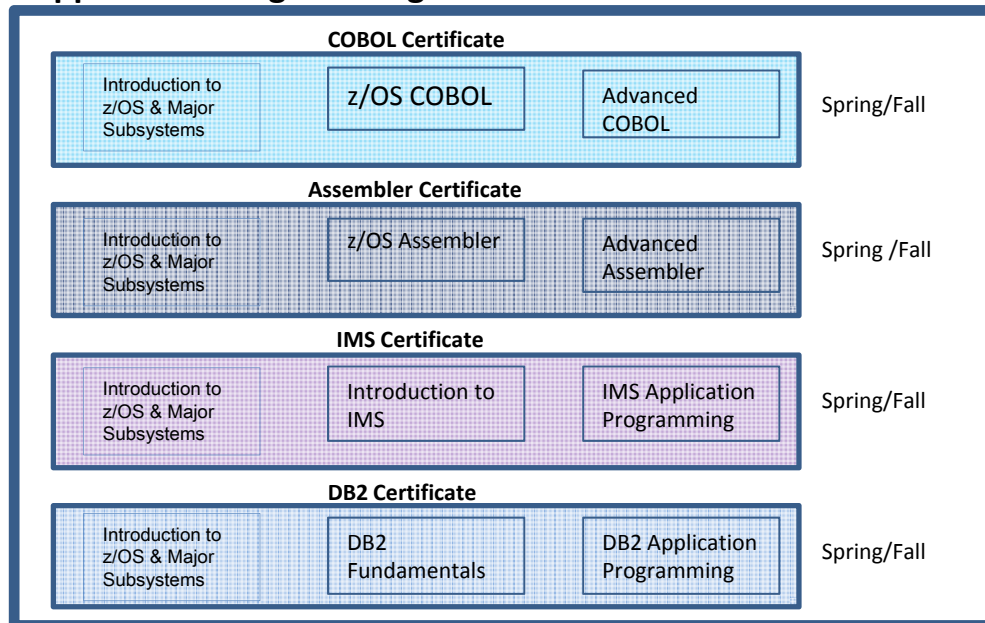
- Significantly reduced with scholarship funding from IBM and New York State

# z/OS Certificate Program Overview

## Systems Programming Track



## Application Programming Tracks



z/VM & Linux Spring /Fall

- 7 Certificates
- 17 Unique Courses

See <http://idcp.org/learnzos> for details

# Marist z/OS Certificate Program

## System z Associate Certificate

### Classes

- Introduction to z/OS and Major Subsystems
- Introduction to z/OS Networking
- Introduction to z/OS Security
  
- All classes approved for credit (3 each)
- Several students have passed the z/OS Mastery exam following the 1<sup>st</sup> class



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# Marist z/OS Certificate Program

## System z Professional Certificate

### Classes

- z/OS Advanced Topics
- z/OS RAS and Diagnostics
- z/OS Emerging Technologies
  
- Qualifying exam for direct entry to Professional Certificate
- All classes approved for credit (3 each)



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# Marist z/OS Certificate Program

## System z Expert Certificate

### Classes

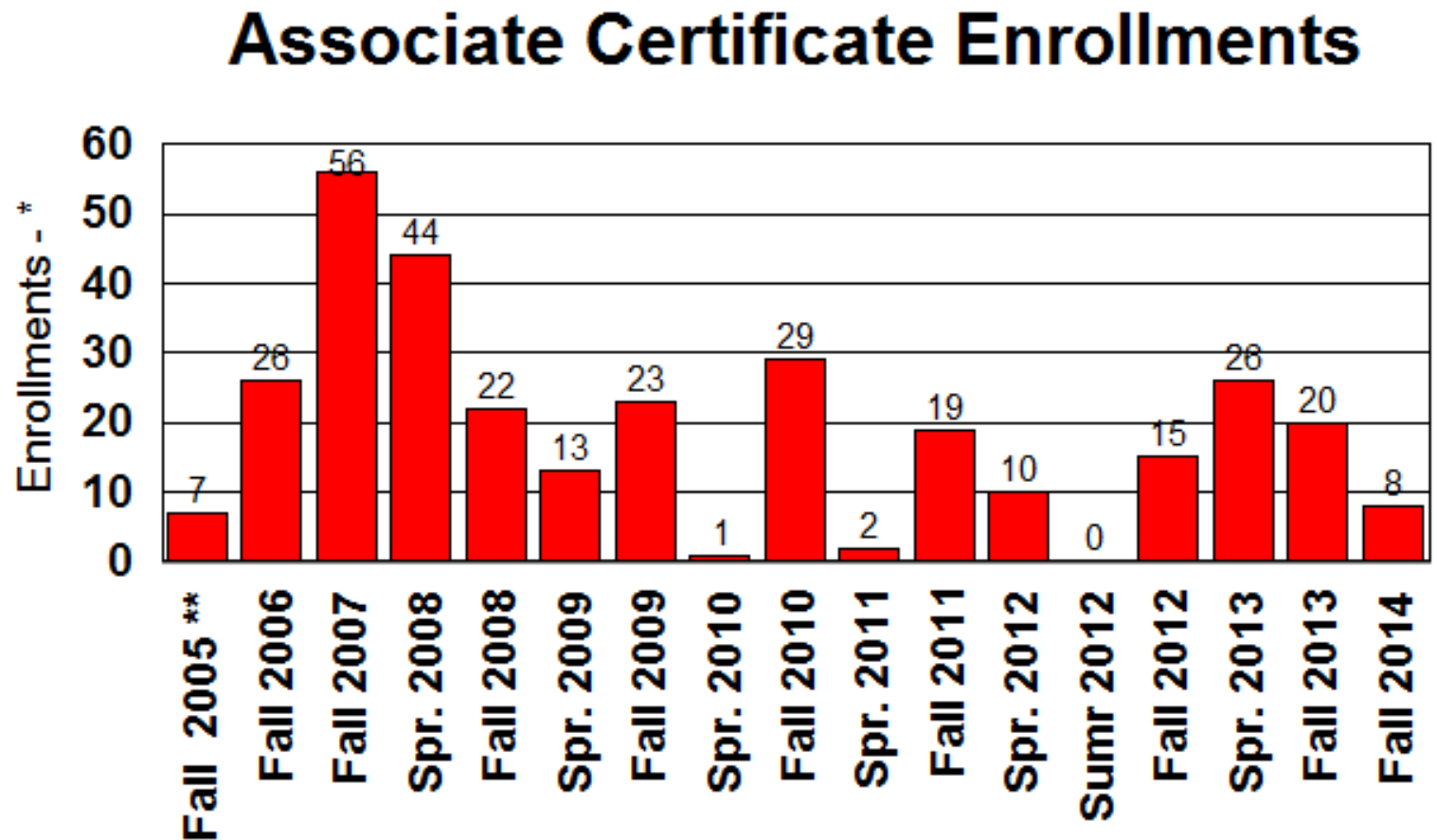
- z/OS Installation
- DB2 Fundamentals
- z/OS Performance Fundamentals
- All classes approved for credit (3 each)



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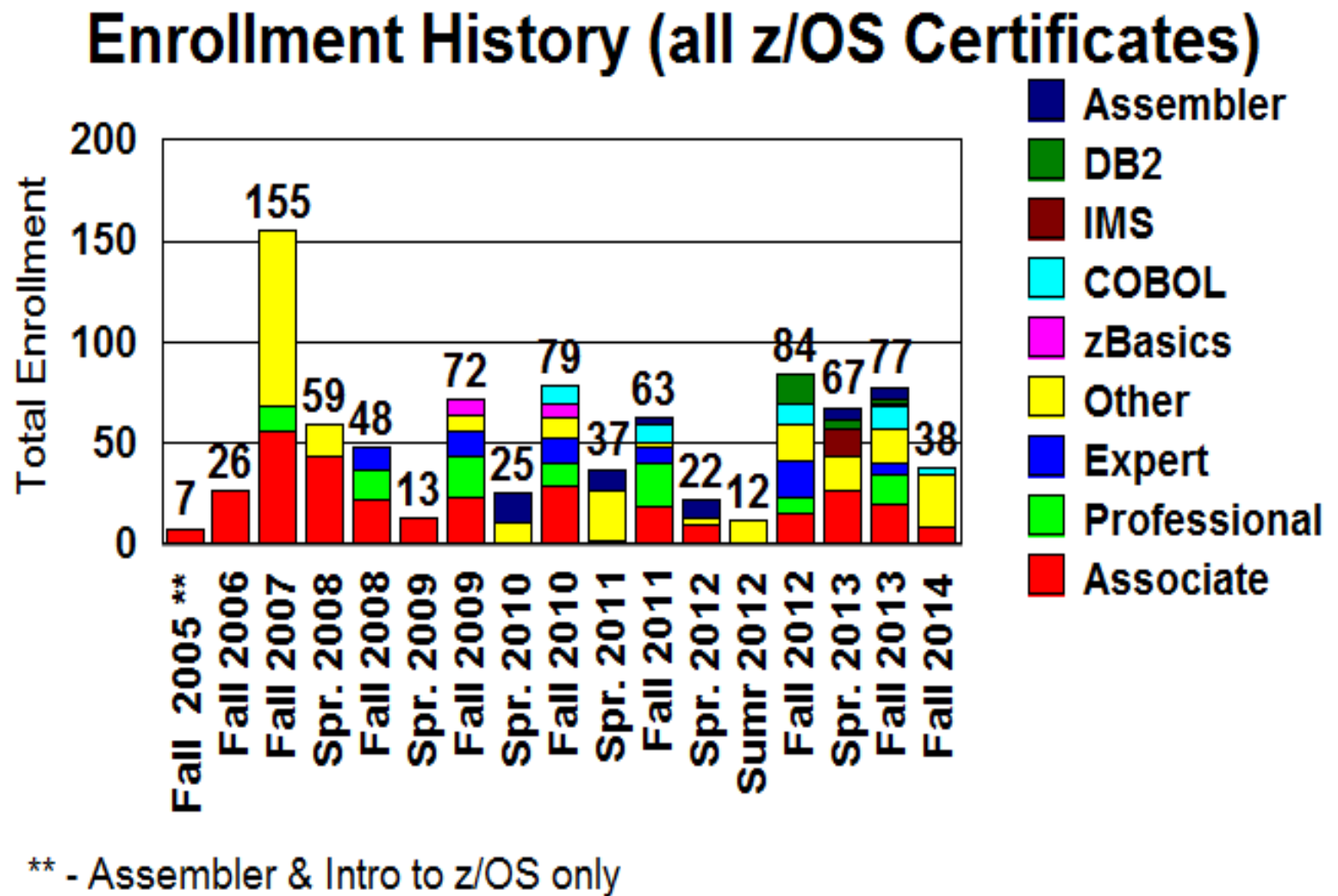
# z/OS Associate Certificate Enrollments



\* - does not include deferrals from prior cohorts

\*\* - Assembler & Intro to z/OS only

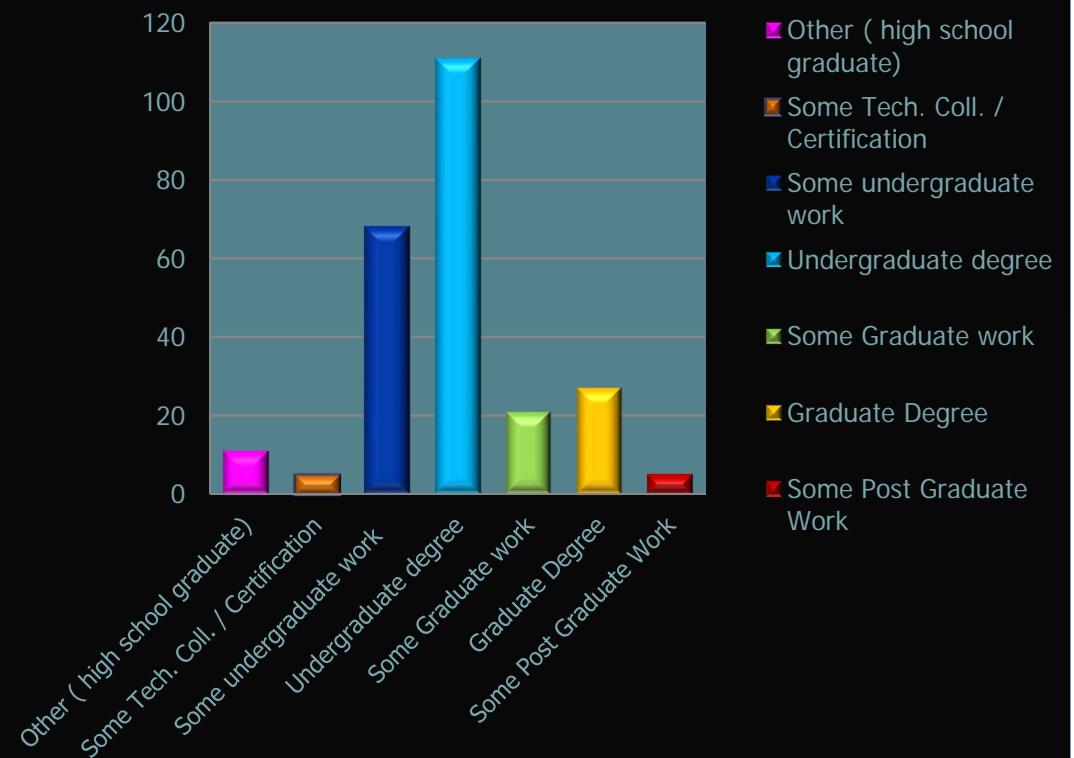
# z/OS Certificate Enrollments



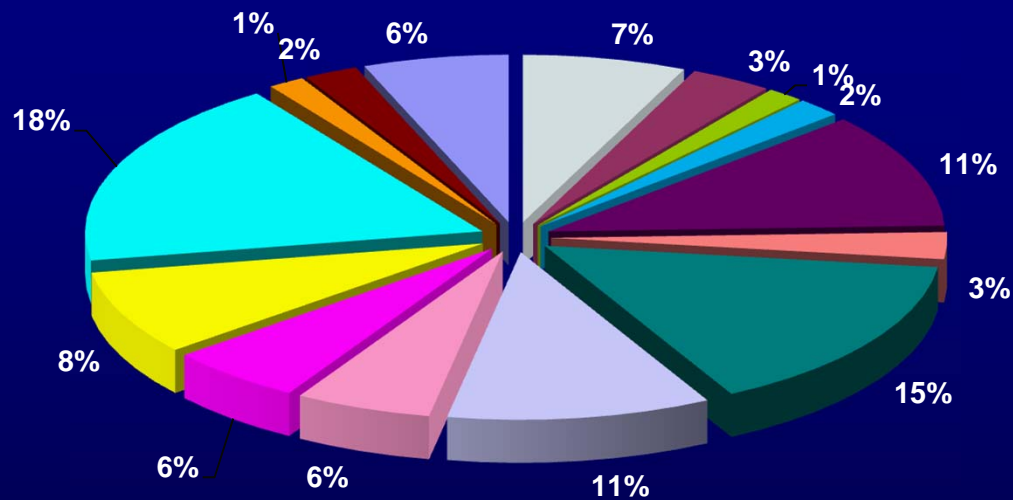
# Marist z/OS Program Student Demographics

- Traditional Undergraduate (18-21 yo)
  - 10-15%
- New Hire (22-29 yo)
  - 15 - 30%
- Experienced (30-50 yo)
  - 50 – 60%
- Other
  - 5%

## Total Participants 2006-2011 Analysis of System z Educational Level



# z/OS Program Student Demographics



**2006-2011 System z Cohort  
Level of Education by Degree and Major**

- MS majors in CS, IS, IT
- MS majors in Business & Tech.
- MS w/some post graduate courses in CS
- BS w/some graduate courses in CS, IS, IT
- BA w/some graduate courses
- BS w/some graduate courses
- BS majors in CS, IS, IT
- BS majors in Acctg., Math., Finance, Mgmt., Biology
- BA majors in English, Psychology, Music
- Degree/other
- Undergraduate Certificate /Associates
- Undergraduate Credits
- Other -Technical College Certificate
- Other - High School
- Undefined - No Data

# Student Testimonials

- *"With more than 25 years experience in Mainframe computing, many of the topics that were covered still provided much useful information for my day to day activities. The various modules are presented by subject matter experts and the prompt responses to my questions via the forums or email was exceptional."*
- "I have absolutely no regrets having taken this class. This class exceeded my expectations and prepared me for the courses to follow."
- "I did like that there was a strong component of ongoing evaluation through quiz scores rather than an emphasis on just one or two exams."

# Student Testimonials

- *"I am happy to report that i took the Test Z01: IBM System z Entry Level for z/OS System Programmer Mastery Test at Prometric Testing and passed all the 65 questions (100%)."*
- "It's making a difference in my day to day activities as a system programmer. Because of the training, new tasks are less daunting and I'm more familiar with resources to assist me."
- "The z/OS courses I have taken through the IDCPC have been a truly amazing professional experience."



# Student Testimonials

- *"The labs are superb and provide an opportunity for "real world" learning in a safe environment."*
- *"The Marist program has played a major role in the advancement of my career and opened a lot of doors for me."*
- *"The instructors were all top notch and the material was right where it needed to be with options to dig further for more detail. Very well done."*

# Enterprises with Multiple Participants

1. IBM
2. Progressive
3. DTCC
4. Citigroup
5. Work Ministry of Saudi Arabia
6. Nationwide Insurance Co.
7. Verizon
8. ISO Staff Services
9. Liberty Mutual Insurance Company
10. UMES
11. BMC Software
12. M&T Bank
13. Aetna, Inc.
14. Commonwealth office of Tech, State of KY
15. T.IS Bankasi A.S.
16. Bank of America
17. Boston University
18. First National Bank (South Africa)
19. Great-West Life Assurance Company
20. Wachovia Bank
21. Department of National Defence (Canada)
22. IsNet A.S.
23. Jack Henry Associates
24. MassMutual Financial Group
25. Visa
26. Aegon USA
27. CCODC, Marist College
28. Central Hudson Gas & Electric
29. EMC Corporation
30. Fidelity Investments
31. NC Farm Bureau Mutual Ins. Co.
32. State Farm
33. Systemware, Inc.
34. T. Rowe Price
35. Tata Consulting
36. Thomson Financial -Transaction Services
37. Washington State Department of Transportation

# Participating Enterprises (all)

ABSA Bank  
Accenture S.A.  
ACG - Auto Club Group  
ADP  
Aegon USA  
Aetna, Inc.  
Aformatik Trng. & Consulting  
GmbH & Co.  
Alcan Global ATI- North America  
Ameritech  
Archer Daniels Midland  
ASR Nederland N.V.  
Associated Consultants  
Atlantic & Pacific Tea Company  
Auto Zone  
Bank of America  
Bank of Tokyo  
BMC Software  
Boston University  
Central Hudson Gas & Electric  
CIGNA Healthcare  
Citigroup  
CN Rail, Inc.  
Commonwealth Office of  
Technology,  
Computer Sciences Corporation  
ConvergEx Group  
Credit Suisse  
Deere & Company (John Deere)

Department of Veterans Affairs  
Depository Trust & Clearing  
Corporation (DTCC)  
Dept. of National Defence (Canada)  
Desert Sands Unified School District  
Donovan Data Systems  
DW Installations  
EMC  
Emirates Airlines  
Everis Outsourcing  
Fidelity Investments  
First National Bank (South Africa)  
Freddie Mac  
Great Lakes Higher Education  
Guaranty Corp.  
Great West Life Assurance Company  
Handelsbanken  
IBM  
Insurance Services Offices (ISO)  
Internal Revenue Service  
IsNet A.S.  
Jack Henry Associates  
JP Morgan Chase  
Kansas City Life Ins.  
Kawasaki Motors Corp. USA  
KG  
Kimline Propane  
LexisNexis  
Liberty Mutual Insurance Company  
Louisiana Housing Fin Ag / Baton  
Rouge

M & T Bank  
Marist College  
Marriott Corporation  
MassMutual Financial Group  
Merlin International – Veterans  
Affairs  
Metavante  
MetLife  
Mitchell Martin  
Mortgage Guaranty Insurance  
Company  
Nationwide Insurance Company  
New York University  
Norfolk Southern Corporation  
Northeast Utilities  
Northern Territory Government  
Northrup Grumman  
NYCE Payments Network LLC  
NYS Dept. of Tax & FinOCIT,  
Sacramento Cty.  
Ohio Public Employees Retirement  
Systems  
Outsourcing deTecnica deSistemas  
- Hardware  
Partsearch Technologies  
Progressive Insurance  
PSC Electrical Contracting  
Referential Systems  
Rutgers University - Office of IT  
Safenet Security, Inc.  
SAIC  
Scotia Bank

Sears Holdings Corporation  
Secura Insurance Company  
Self Employed Consultant  
Services  
SoftTech A.S.  
State Farm Insurance  
State of KY  
Systemware, Inc.  
T. Rowe Price  
T.IS Bankasi A.S.  
TAG  
Tata Consulting  
TD Bank  
Thomson Financial-Transaction  
Tjornin Consulting Pty, Ltd.  
Trinity Health Information Services  
University of Maryland Eastern  
(UMES)  
Unum Group  
US Treasury  
USDA  
Verizon  
Visa, Inc.  
Wachovia Bank  
Washington State Department of  
Transportation  
Wells Fargo  
Work Ministry of Saudi Arabia

# International Participants



# Marist z/OS Joint Advisory Board

Marist Department of Computing Technology  
Director of Enterprise Computing Education (chair)  
Dean and Assistant Dean

IBM  
Key Technical Leaders  
Academic Initiative Team

## Industry

Aetna Insurance  
Bank of America  
Bank of Montreal  
BMC Software  
Broadridge  
Charles Schwab  
Citigroup  
Computer Sciences Corp.  
Computer Associates  
EMC  
Fidelity Investments  
Kawasaki Motors

M&T Bank  
Medco  
Progressive Insurance  
RBC  
Regions Bank  
Rocket Software  
Tata Consulting  
TD Bank  
UBS  
Verizon  
US Dept. of Veterans Affairs  
Wachovia

Additional members welcome !

# Marist z/OS Certificate Program

## Cohorts now forming !

- **System z Associate Certificate**
  - Standard Marist Tuition (3 courses): ~\$5500
  - Scholarships reduce the cost to \$2,700 (3 courses)
    - Scholarship funding from IBM and New York State
    - Group Discount available for multiple students from an enterprise in one cohort
    - Consider using Corporate tuition reimbursement benefits
- **System z Professional Certificate**
- **System z Expert Certificate**
- **COBOL Application Programming Certificate**
- **Assembler Application Programming Certificate**
- **IMS Application Programming Certificate**
- **DB2 Application Programming Certificate**
- For additional information
  - <http://idcp.marist.edu/learnzos>
  - [Angelo.Corridori@Marist.edu](mailto:Angelo.Corridori@Marist.edu)
  - [learnzos@marist.edu](mailto:learnzos@marist.edu)



# Marist z/OS Certificate Program

## Mainframe Training for IT Professionals

### Distinguishing Characteristics:

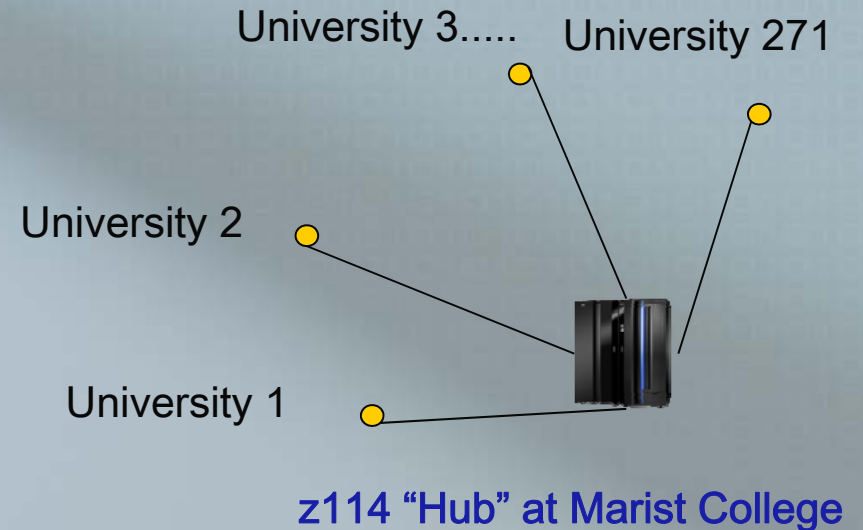
- Available worldwide
- Learn at your convenience
- Technology Focused, Business exposure
- Taught by System z industry experts
  - **Avg. >30 Years experience with z**
- Continual Student Assessment

# Agenda

- Marist z/OS Programs
  - On Line z/OS Certificate Program
- **Marist Knowledge Center**

# Marist College “Knowledge Center”

- Provides remote (internet) mainframe z/OS access for professors and students
- 271 schools and 656 professors have used the Knowledge Center (as of March 2013)
- Supporting over 64 active courses (as of March 2013) (842 overall classes supported)
- Over 13,897 User Ids issued for hands on education
- Steadily increasing number of professors and students
- Very high ratings and positive professor feedback for quality of service



# Knowledge Center Software

- z/OS 1.12
- DB2 9.1
- CICS 3.2
- IMS 10
- Websphere MQ
- Enterprise COBOL for z/OS 3.4.1
- HLASM R5.0
- Enterprise PL/I for z/OS
- The DFSMS level is z/OS 1.7.0
- The TSO level is 3.6.0
- The ISPF level is 6.1
- The VTAM level is 6.1.7
- Rational Developer/z 7.5 (host)

# Knowledge Center Vendor Products

- zXDC – ColeSoft
- Vista TN3270 emulator – Tom Brennan Software
- MVS QuickRef – Chicago Soft
- SelCopy – CBL
- Easytrieve – CA Technologies
- XMITIP – LBD Software
- Pathpoint Development tools – PathPoint Software
- Image FOCUS – New Era Software, Inc.
- Under Investigation
  - MXI – Rocket Software

# Marist z/OS Certificate Program

## Let us hear from you!

- Have you & your colleagues enroll in classes
- Join the z/OS Advisory Board
  - Teleconference (every 6-8 weeks)
- Join the Enterprise Computing Community
  
- For additional information
  - <http://idcp.marist.edu/learnzos>
  - [Angelo.Corridori@Marist.edu](mailto:Angelo.Corridori@Marist.edu)
  - <http://ecc.marist.edu>
  - [learnzos@marist.edu](mailto:learnzos@marist.edu)



# Questions ?

