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MEMORANDUM OF UNDERSTANDING (MOU)
Between

Pace University
Seidenberg School of Computer Science and Information Systems
1 Pace Plaza, New York, NY 10038
and
National Defense University
Information Resources Management College
Washington, D.C.

This Memorandum of Understanding (MOU) is made this 30th day of November, 2010 by and between Pace University and the National Defense University Information Resources Management College (NDU iCollege, formerly IRM College or IRMC).

1. **PURPOSE:** Both parties wish to enter into this understanding to provide extended academic opportunities to their respective students and faculty. It is understood that the purpose of the MOU between Pace University and the NDU iCollege include: strengthening the quality and breadth of academic programs at both institutions; promoting an educational environment where faculty and graduate students from both institutions can learn from one another through sharing of information and knowledge; leveraging the strengths and resources of programs at both institutions.

2. **BACKGROUND:** The NDU iCollege (formerly known as the IRM College or IRMC) has been entering into MOUs with academic institutions for approximately 10 years, with the goal of transferring academic credits for NDU iCollege graduates into selected programs at graduate schools across the U.S. When the U.S. Department of Defense (DoD) began the Information Assurance Scholarship Program (IASP) in 2001, the need for academic partnerships supporting Masters and Doctoral programs related to IA became necessary. The NDU iCollege continues to form academic partnerships, related to credit transfer, to support the DoD in the area of IA education.

This is a renewal of an existing MOU. Signing this MOU will allow students who graduate from the NDU iCollege to transfer graduate-level course credits into selected graduate programs within Pace University. The NDU iCollege will provide the manpower to help draft and review this MOU, including renewal when applicable.

3. **OBJECTIVE AND SCOPE:** This MOU applies to the NDU iCollege and to the above-stated department within Pace University. The expectations from this MOU include attracting more qualified students into information leadership, or a related information-management field.

4. **REFERENCES AND DEFINITIONS:** Chapter 112, Title 10, United States Code, authorizes the DoD Information Assurance Scholarship Program (IASP). This scholarship program is only applicable to the MOU for schools that are recognized as National Centers of Academic Excellence (CAEs) in Information Assurance Education. Only CAE schools may partner for credit transfer for NDU iCollege IA Certificate Program (IA4011, 4012, 4015, 4016, and CISO). Non-CAE schools may partner in other certificate areas. Since Pace University is a CAE, they may partner with the NDU iCollege in the area of IA.

5. **SPECIFIC RESPONSIBILITIES/AUTHORITY:** The NDU iCollege and Pace University designate the person(s) set forth in Section 6 as their respective representatives to coordinate and manage the activities under this MOU. The representatives shall meet as needed to discuss the programs, changes to programs, and any other topics of interest to either party.

Each party in this MOU retains full authority over and reserves the right to make changes in their respective courses, programs, and credential requirements. Each party shall publicize this MOU and programs mentioned herein in academic materials as appropriate and shall brief students as appropriate. Neither party shall use the name or logo of the other party without the prior approval of the other party.

Within Pace University, the Seidenberg School is interested in accepting NDU iCollege graduates into its Masters and/or Doctoral programs. Pace University is willing to award:

- **9 graduate credit hours for students who complete the Information Assurance (IA) 4011 Certificate**
- **12 graduate credit hours for students who complete both the IA 4011 and 4012 Certificates**
- **15 graduate credit hours credit for students who complete the Chief Information Officer (CIO) Certificate**
- **15 graduate credit hours for students who complete the Chief Information Security Officer (CISO) Certificate**

After NDU iCollege graduates have completed the above-named certificate program at the NDU iCollege, and the remaining requirements at Pace University, the following degree(s) may be awarded from Pace University: **Master of Science in Internet Technology; Master of Science in Computer Science; Master of Science in Information Systems.**

Each institution agrees that NDU iCollege student(s) enrolled at Pace University under this MOU will be subject to all Pace University rules and policies governing the degree award, including maintenance of satisfactory performance, and completion of the remaining credit hours inherent to the student's specific degree program.

6. **COORDINATION CONTACTS:** The following persons will serve as points of contact at Pace University and at the NDU iCollege, and will communicate mainly by email and phone:

Constance A. Knapp, Interim Dean
Seidenberg School, Pace University
861 Bedford Road
Pleasantville, NY 10570
Phone (914) 773-3750; Fax (914) 773-3533
cknapp@pace.edu

Ms. Patricia Coopersmith, Project Manager
National Defense University, Information Resources Management College
Fort Lesley J. McNair, Marshall Hall, Room 150
Washington, DC 20319-5066
Phone (202) 685-2117; Fax (202) 685-3974
coopersmithp@ndu.edu

7. RESOURCES:

- a. **Funding:** No funding will change hands as part of this MOU.
- b. **Manpower:** The NDU iCollege will assign one individual, the POC listed above, to coordinate this MOU. Pace University may assign as many persons as needed.
- c. **Workload:** The NDU iCollege projects approximately 4-8 hours/year to staff this MOU.
- d. **Other Support:** An occasional event at the NDU iCollege may require the use of NDU conference rooms and projection equipment. Other support includes the NDU computer and regular office supplies used by the NDU iCollege POC.

8. EFFECTIVE DATE AND TERMINATION: This MOU will be effective from the date of signing and will have a duration of three years. Upon expiration of the three years, the MOU will be subject to renewal. Additions and changes to this MOU may be made at any time with the written agreement of both Pace University and NDU iCollege. Either party may withdraw from this understanding upon 60 days written notice to the other institution. Termination must be from the approving officials or their designated personnel.

9. APPROVAL: All parties identified below agree to the provisions and terms of this MOU.

APPROVED:

**National Defense University
NDU iCollege**

Pace University

Name: Robert D. Childs

Name: Harriet R. Feldman

Title: Chancellor

Title: Interim Provost

Signature: Robert D Childs

Signature: Harriet R Feldman

Date: 12-22-10

Date: 12/29/2010

Appendix A - Course Information for NDU iCollege Graduates

Annex A – MS in Internet Technology

Course Requirements at Pace for NDU iCollege Graduates

Students who pursue the CIO or CISO Certificate will receive **15 credits**: IT 603, Overview of Information Security; IT 660, Network Security; IT 662, Web and Internet Security; IT 664, Computer and Internet Forensics; IT 666, Information Security Management.

Students who pursue the Information Assurance (IA) 4011 Certificate Program will receive **9 credits** in security: IT 603, Overview of Information Security; IT 660, Network Security; IT 666, Information Security Management.

Students who pursue the Information Assurance (IA) 4011 and 4012 Certificate Program will receive **12 credits** in security: IT 603, Overview of Information Security; IT 660, Network Security; IT 662, Web and Internet Security; IT 666, Information Security Management.

Students would need to complete the remaining 21-27 credits at Pace University:

Course Number	Course Name	Credits
IT 600	Overview of Data Communications and Networks	3
IT 605	Database Management Systems	3
IT 607	Systems Development and Project Management	3
IT 662 ¹	Web and Internet Security ¹	3
IT 664 ²	Computer and Internet Forensics	3
IT 691	Capstone Project	3
Elective I ³		3-4
Elective II ³		3-4
Elective III ³		3-4

¹ Only required for those students who have completed the Information Assurance (IA) 4011 Certificate.

² Only required for those students who have completed the Information Assurance (IA) 4011 or 4012 and 4012 Certificates.

³ Students may take any Seidenberg graduate course or MAR/MBA/MGT graduate Lubin course from a select list for which they have the necessary prerequisites and the chair's approval.

Annex B – MS in Computer Science

Course Requirements at Pace for NDU iCollege Graduates

Students who pursue the CIO or CISO Certificate will receive **15 credits**: IT 603, Overview of Information Security; IT 660, Network Security; IT 662, Web and Internet Security; IT 664, Computer and Internet Forensics; IT 666, Information Security Management.

Students who pursue the Information Assurance (IA) 4011 Certificate Program will receive **9 credits** in security: IT 603, Overview of Information Security; IT 660, Network Security; IT 666, Information Security Management.

Students who pursue the Information Assurance (IA) 4011 and 4012 Certificate Program will receive **12 credits** in security: IT 603, Overview of Information Security; IT 660, Network Security; IT 662, Web and Internet Security; IT 666, Information Security Management.

Students would need to complete the remaining 21-27 credits at Pace University:

Course Number	Course Name	Credits
CS 604*	Computer Systems and Concepts	4
CS 606	Fundamental Computer Science II using Java	4
CS 612	Concepts and Structures in Internet Programming	4
CS 632	Directed Readings in Computer Science	1
CS 615	Software Engineering Seminar I	4
CS 616	Software Engineering Seminar II	4
	or	
CS 693	Thesis I	4
CS 694	Thesis II	4
CS 602 ¹	Fundamental Computer Science I Using Java or Elective	3-4
CS ²	Elective	3-4

* Students having little or no background in programming and/or college mathematics will need to resolve academic deficiencies through one or several preparatory courses. Incoming students are advised as to where they may most appropriately begin.

¹ Only required for those students who have completed the Information Assurance (IA) 4011 Certificate.

² Only required for those students who have completed the Information Assurance (IA) 4011 or 4012 Certificates.

Annex C – MS in Information Systems

Course Requirements at Pace for NDU iCollege Graduates

Students who pursue the CIO or CISO Certificate will receive **15 credits**: IT 603, Overview of Information Security; IT 660, Network Security; IT 662, Web and Internet Security; IT 664, Computer and Internet Forensics; IT 666, Information Security Management.

Students who pursue the Information Assurance (IA) 4011 Certificate Program will receive **9 credits** in security: IT 603, Overview of Information Security; IT 660, Network Security; IT 666, Information Security Management.

Students who pursue the Information Assurance (IA) 4011 and 4012 Certificate Program will receive **12 credits** in security: IT 603, Overview of Information Security; IT 660, Network Security; IT 662, Web and Internet Security; IT 666, Information Security Management.

Students would need to complete the remaining 21-27 credits at Pace University:

Course Number	Course Name	Credits
IS 613	Database Management Systems	3
IS 620	Information Systems Strategy and Innovation	3
IS 623	Information Systems Analysis and Design	3
IS 632	Business Data Communications	3
IS 637	Information Systems Project Management	3
IS 639	Information Systems Planning & Policy	3
IS 680	Information Systems Capstone Project	3
IS ¹	Elective	3
IS ²	Elective	3

¹ Only required for those students who have completed the Information Assurance (IA) 4011 Certificate.

² Only required for those students who have completed the Information Assurance (IA) 4011 or 4012 and 4012 Certificates.



**DEPARTMENT OF DEFENSE
INFORMATION RESOURCES MANAGEMENT COLLEGE
WASHINGTON DC 20319-5066**

December 22, 2010

Chancellor

Dr. Harriet R. Feldman
Interim Provost
Pace University
861 Bedford Road
Pleasantville, NY 10570

Dear Dr. Feldman

Enclosed is a signed copy of the memorandum of understanding between the National Defense University's Information Resources Management College (NDU iCollege) and Pace University.

I am pleased that we have developed this renewal agreement and look forward to working with you. If you should need assistance or further information, please contact Ms. Patty Coopersmith at 202-685-2117 or coopersmithp@ndu.edu.

Sincerely,

A handwritten signature in black ink that reads "Robert D. Childs".

Robert D. Childs
Chancellor

Encl
as

Copy Furnished: Dr. Constance A. Knapp