Cooperation Agreement between IIIST Shanghai, China and IPFW, Fort Wayne, Indiana, USA

The International Institute of Information Science and Technology
Shanghai, People's Republic of China
and
Indiana University-Purdue University Fort Wayne, Indiana, USA

I. Purpose
The purpose of this Cooperation Agreement is to summarize the intent of:

- The International Institute of Information Science and Technology (IIIST), Zhangjiang Hi-Tech Park, Shanghai, China

and

- The College of Engineering, Technology, and Computer Science (ETCS) of the Indiana University-Purdue University Fort Wayne (IPFW), Indiana, USA
to jointly provide opportunities for college graduates and information technology (IT) professionals with IPFW's (1 + 1) Master's program in Applied Computer Science.

This agreement allows IPFW to offer IIIST's students a Master's degree program in Applied Computer Science, in which some courses may be possibly offered via the distance learning mechanism at IIIST, Pudong, Shanghai, China.

General Provision
The IPFW Computer Science Department is prepared to welcome students of IIIST who wish to complete the first portion of a Computer Science degree program at IIIST and the second portion at IPFW based on agreed/designated plans of study. IIIST and IPFW agree to develop degree plans of study, and to exchange description of curricula, academic standards, and evaluation techniques with the purpose of establishing equivalencies between credits earned at IIIST and credits earned at IPFW. Equivalent credits are those that may be earned from taking credited coursework at IIIST and simultaneously meet a portion of the requirements for IPFW degrees awarded in Computer Science.

Degree Programs Offered
Students enrolled in the Applied Computer Science program may choose any of the agreed/designated plans of study [see appendix].

Master's Program
For the Master's degree in Applied Computer Science, IIIST will offer the first year of courses as listed in the agreed/designated plan of study for the MS program in Applied Computer science in the appendix. These students will complete their final year of their study at IPFW. The Department of Computer Science at IPFW may assign faculty members to offer courses (possibly via distance learning mechanism at IIIST) to ensure that students have the opportunity to complete their study.
Upon completion of the first year IIIST’s credited course work and the final year IPFW’s credited course work, successful students who meet all requirements will be awarded Purdue University Master’s degree in Applied Computer Science at IPFW.

II. Degree Authority
The Master’s program degree in Applied Computer Science will be awarded by the Purdue University and conferred at IPFW.

Requirements for the degrees offered at IIIST will be identical to those for students on the IPFW campus. [See http://www.ipfw.edu/academics/bulletins/]

III. Description of Academic Programs
Graduates of the MS program in Applied Computer Science at IPFW will be in a position to assume leadership roles in:

- Providing technological and managerial perspectives on information/software management and the development of information/software systems;
- Formulating and assessing requirements for complex software-based systems;
- Using the principles of systems analysis and software engineering to design, implement, and test complex software-based systems; and
- Keeping abreast of the content and implications of technological advancements in applied computer sciences.

The degree program offered at the IIIST site is the same as the IPFW degree programs in Fort Wayne, Indiana. Some of the detailed program is described in the Appendix.

The course content and standards of achievement in each course offered in IIIST will be the same as those of the IPFW. It is understood that IIIST and IPFW will maintain the same basic content, required assignments, examinations and rigor of the program. However, it is also understood that it will be necessary to adapt portions of the content and illustrative examples included in the instructional material to the needs of the companies in the industrial parks in the Shanghai region.

Instruction will be in English. Hence, students are required to speak and write in English. The course description and course syllabi and textbook will be approved by IPFW.

IV. Requirements for Admission to Master’s Degree Programs at IPFW
Students wishing to apply for the 1+1 Master’s degree program in Applied Computer Science will apply to IPFW as transfer students. They must supply the following documents, as well as any others requested by the international admissions office—see international admissions requirements at:
http://www.ipfw.edu/iss/admission/requirements.shtml

To enter the IPFW graduate degree program, an application for regular admission must be made. Successful candidates for regular graduate admission include promising applicants who:
1. have earned baccalaureate degrees from colleges or universities of recognized standing;
2. have completed studies equivalent to those required of Indiana University or Purdue University baccalaureate recipients;
3. have earned a B or better average in their undergraduate major;
4. have the Graduate Record Examination (GRE); and
5. have proof of English language proficiency. Score report of one of the following: TOEFL, IELTS, SAT, ACT, Michigan Test, etc. for non-native English speakers. The current minimum required score for academic admission to IPFW for degree programs is 550 on the paper version of TOEFL, or 79 on the internet-based version, or 6.5 IELTS, or any of these equivalents.

Completed applications for graduate admission and all required supporting materials must be sent to the Admission office at IPFW before April 1.

Given consideration to these criteria, IIIST will develop mechanisms to identify and recruit prospective students for the programs. All applicants must submit their complete applications to IIIST, which will review the applications first and then forward to the International Admissions or Office of Graduate Studies of IPFW for final admission decision. IPFW will assist in the development of, and will approve, recruiting materials to be utilized to present the programs to prospective students.

Admission to the Master's Program in Applied Computer Science
For the Master's program in Applied Computer Science, most students will use the one-plus-one format. IIIST will be responsible to prepare their students to meet IPFW's admission requirements. IPFW will admit a student to the program if they meet the admission requirements.

IIIST will be responsible for their students to complete 18 credit hours of designated graduate coursework at IIIST campus. These are the fundamental courses. IPFW will accept 12 credit hours out of their 18 total credit hours of designated coursework and allow these students to complete their remaining degree requirements (including mandatory 6 hours of ACS 698 Research MS Thesis which allows students to engage in faculty research, and 12 credit hours of courses which support their thesis work) for the Master's program in Applied Computer Science at IPFW campus. However, IPFW will also consider offering the remaining courses of the program at the IIIST campus, subject to Indiana Commission for Higher Education (ICHE) approval.

V. IIIST Support of Programs
IIIST agrees to assist IPFW to prepare students for this program who will demonstrate upon completion of their 18 total credit hours of designated coursework at IIIST competency in the areas of acquisition of knowledge, application of knowledge, personal and professional values, a sense of community, critical thinking and problem solving, and finally, communication.

VI. Administration and Faculty Staffing of the Program and Program Schedule
Both the IPFW College of ETCS and IIIST will each identify a faculty member to and serve as Program Co-Director. These two individuals will be jointly responsible
for the administration of the programs. Any matter requiring faculty review and approval will be handled by the department and then the IPFW College of ETCS in the normal manner.

VII. Research Collaboration between IPFW and IIIST
IPFW and IIIST will consider developing research projects that allows the faculty members of IPFW and IIIST to establish research collaboration and partnership. Faculty and student exchange program will be considered. Some collaboration may occur under the aegis of IPFW’s recently established.

VIII. Approvals and Authorizations
Both IIIST and IPFW will endeavor and provide assistance for each other to obtain all necessary approvals and authorizations from their respective agencies as necessary. Implementation of this agreement depends on obtaining these approvals and authorizations.

IX. Business and Industrial Partnerships
Both IPFW and IIIST will seek the partnership of business and industry in China and the United States. All business and industry partners will contribute equipment and/or funding for educational purposes, allowing IPFW and IIIST to operate the educational program in a cost-effective and efficient manner to reach thousands of students.

X. Financial Responsibilities
IIIST and IPFW will be responsible for all expenses associated with their respective responsibilities under this agreement.

Students who are admitted to study at the IIIST for the first three years of this joint program should pay their tuition and fees to the IIIST. Students who are admitted to, and continue their study at IPFW, should pay their tuition and fees to IPFW.

When students are at the IPFW program, (that is, the final two years of undergraduate study at IPFW) it is anticipated that students shall pay their tuition fees according to the rate set by IPFW for undergraduate resident fees but subject to annual enrollment limitations set by the Chancellor of IPFW. IPFW will anticipate 25 - 40 total students (undergraduate and graduate) for the first time to attend the program at IPFW. In addition, students must meet the minimum academic eligibility requirements for admission and score a minimum of 87 on the TOEFL exam, or equivalent, to qualify for the resident fee rate. In reciprocity, IPFW students studying at the IIIST site will pay the same tuition as IIIST students.

XI. Duration of this Agreement
It is the intent of both parties to this Cooperation Agreement that the degree programs will be continued for a period of at least ten years. The conditions of this agreement will be reviewed and discussed by both parties and a new agreement generated every three years.

XII. Dispute Resolution
Recognizing that it is in the best interest of both parties in this agreement to make this program successful, resolution of disputes will be based on earnest negotiation between IPFW and IIIST. In the unlikely event that such an agreement cannot be
reached, the issue will be presented to a third party acceptable to both IPFW and IIIST for mediation.

XIII. Termination
It is the intent of both parties that this agreement will govern program operations for at least the first five years of the joint degree programs offered by IPFW at IIIST, and that this agreement will be replaced by subsequent agreements that will continue the programs into the future. However, should either party wish to terminate this program, they may do so by giving 90 days notice to the other party. Such termination will not affect the responsibilities of each party to provide an opportunity for students already enrolled in a program to complete his/her degree program. This means that both parties are responsible to provide for the continuation of the programs for those already enrolled. This may involve negotiating an agreement for the relocation and transfer of those students to the campus of either institution for the completion of their degree program with reasonable tuition fees applied. If a degree is completed at IPFW campus, the normal tuition and fees will apply.

XIV. Non-discrimination
IPFW does not discriminate against any individual in the University community on the basis of race, religion, color, sex, age, national origin or ancestry, marital status, parental status, sexual orientation, disability, or status as a veteran. IPFW promulgates policies and programs to ensure that all persons have equal access to its educational programs, services and activities.

XV. Indemnification
Each party to this contract agrees to assume liability for the wrongful acts or omissions of its employees or agents while they are functioning within the scope of their employment or agency, and hold the other party harmless for such liability. Each party further agrees to maintain adequate insurance coverage for such liability either through commercial insurance or statutory self-insurance coverage, or for political subdivisions of the State of Indiana. Neither IIIST, its officers, employees, nor agents are employees or agents of Indiana University-Purdue University Fort Wayne, and vice versa.

Signatures

Dr. Michael Wartell
Chancellor
Indiana University Purdue University
Fort Wayne (IPFW)
Date: 11/29/2010

Professor Xiangfu Zong
Founding President
International Institute for Information Science and Technology (IIIST)
Date: 12/4/2010
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Dr. William McKinney  
Vice Chancellor for Academic Affairs  
Indiana University Purdue University  
Fort Wayne (IPFW)  
Date:

Weiming Xu  
Vice President for International Affairs  
International Institute for Information Science and Technology (IIIST)  
Date: 12/5/2010

Walter J. Braudson  
Vice Chancellor for Financial Affairs  
Indiana University Purdue University  
Fort Wayne (IPFW)  
Date:

Qizhen Liu  
Vice President for Research  
International Institute for Information Science and Technology (IIIST)  
Date: 12/5/2010

Steve Sarratore  
Associate Vice Chancellor for Academic Programs and Director of Graduate Studies  
Indiana University Purdue University  
Fort Wayne (IPFW)  
Date:

Dr. Max Yen  
Dean, College of Engineering, Technology, and Computer Science  
Steel Dynamics Distinguished Professor of Engineering  
Indiana University Purdue University  
Fort Wayne (IPFW)  
Date: 16 Nov, 2010

Brian R. Mylrea  
Director, International Education  
Indiana University Purdue University  
Fort Wayne (IPFW)  
Date: 16 November, 2010
Appendix

M.S in Applied Computer Science (One-plus-one format)

**IIIST Campus** (complete six courses out of the seven courses)
(Only 12 credit hours will be counted towards the MS degree in Applied CS)

<table>
<thead>
<tr>
<th>Year</th>
<th>Term</th>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>1st Year</td>
<td>Fall</td>
<td>ACS560 Software Engineering</td>
<td>3</td>
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<td></td>
<td></td>
<td>ACS565 Survey of Database Design</td>
<td>3</td>
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<td>CS590 Programming Languages</td>
<td>3</td>
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<td>Spring</td>
<td>CS503 Operating Systems</td>
<td>3</td>
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<td>ACS 572 Heuristic Problem-Solving</td>
<td>3</td>
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<td>ACS 574 Advanced Computer Networks</td>
<td>3</td>
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<td>CS580 Algorithm Design, Analysis, and Implementation</td>
<td>3</td>
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**IPFW Campus** (complete mandatory two semesters of ACS698 and four courses out of the following list of courses)
(6 hours of Research M.S. Thesis and 12 hours of courses work will be counted towards the MS degree in Applied Computer Science.)

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<th>Year</th>
<th>Term</th>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>2nd Year</td>
<td>Fall</td>
<td>CS590 Knowledge Discovery &amp; Data Mining</td>
<td>3</td>
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<td>CS590 Application Development for Web</td>
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<td>CS590 Machine Learning</td>
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<td>ACS698 Research M.S Thesis</td>
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<td>Spring</td>
<td>ACS522 Advanced Computer Graphics</td>
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<td>CS590 Wireless &amp; Mobile</td>
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<td>ACS567 Software Project Management</td>
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<td>ACS698 Research M.S Thesis</td>
<td>3</td>
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*These four courses can also be selected from the following list of courses, but not limited to:
CS 543 Simulation & Modeling
CS 545 Cryptography and Network Security
CS 590 Web Services
CS 590 Cloud Computing
CS 590 Embedded Systems Development
CS 590 Information Visualization
CS 590 Advanced Security Architecture
CS 590 Semantic Computing
CS 590 Internet-based Programming