

**ARTICULATION AGREEMENT**  
**Between**  
**THE UNIVERSITY OF PUERTO RICO – RÍO PIEDRAS**  
**And**  
**MIAMI DADE COLLEGE**

**I. Introduction**

This agreement is to facilitate the transfer and transition of Associate in Arts Environmental Studies students (the "students") from MIAMI DADE COLLEGE ("MDC") into the Bachelor of Science Program in Environmental Sciences at UNIVERSITY OF PUERTO RICO-RÍO PIEDRAS (UPR-RP). It is intended to provide students the opportunity to continue their college education at the university level, while recognizing the achievements of students awarded an Associate of Arts degree from MDC.

Articulated Transfer between MDC and UPR-PR will prove beneficial to the students because UPR-RP's Environmental Science Program will serve as a capstone for MDC students, who wish to earn a baccalaureate degree with the possibility of continuing on to graduate study.

**II. Objectives**

- 1) To facilitate and expedite the transfer of students between MDC and UPR-RP. By means of this agreement, the participating students can take those required courses for the Associate of Arts degree (AA) at MDC, which will permit the transfer to UPR-RP without losing credits or extending the established time for completing the requirements of the program;
- 2) To strengthen the academic development of the participating students by providing them with the opportunity to achieve their academic goals in a reasonable time and to expose them to the cultural and educational resources of both participating institutions, enriching their academic preparation.

**III. Agreement**

MDC and UPR-RP agree to the following to facilitate the transfer of graduates of MDC's AA Degree in Environmental Studies into the in Environmental Sciences BS program at UPR-RP:

- 1) In order to be accepted into the UPR-RP BS in Environmental Sciences, a student must (a) graduate from MDC with an AA degree in Environmental Studies, and (b) complete the first and second year courses as set forth in Appendix A.
- 2) Students will be admitted from MDC using the standards established by UPR-RP as outlined in Appendix B and will be accepted as Junior (Third Year) students.
- 3) UPR-RP will, to the best of its ability, counsel and advise MDC graduates through UPR-RP's admission process with the assistance of UPR-RP Student Services personnel, the Chair of the Program of Environmental Sciences, and the College of Natural Sciences advisors.
- 4) UPR-RP will accept up to a maximum of 65 college credit hours from the MDC student's AA degree in Environmental Studies and general education coursework.
- 5) Once accepted at UPR-RP, the student will need to complete a minimum of 48 credits at UPR-RP at the 3000 level or higher as specified in Appendix C.
- 6) UPR-RP's Environmental Sciences Program is charged with producing quality undergraduates who possess a core liberal education, along with technical expertise in Environmental Sciences, and to promote the development of self-education for lifelong learning. The program is located within an accredited university with multiple learning modes and staffed by a strong faculty with diverse research interests. The Environmental Sciences Program has also been strengthened by increasing national and local focus on environmental matters and by the support of the local science community.

#### IV. Residence Requirements

For matriculation purposes, students accepted by this Articulated Transfer Program and who are full time students in good standing, will pay the same tuition paid by Puerto Rican residents.

#### V. Additional Clauses

**The following clauses MUST APPEAR ON ALL UNIVERSITY OF PUERTO RICO AGREEMENTS REGARDLESS OF THE CAMPUS OR INDIVIDUAL PROGRAM INVOLVED. THESE ARE CLAUSES OF UTMOST IMPORTANCE THAT RENDER THE DOCUMENT LEGAL. THESE CLAUSES ARE REQUIRED BY THE VARIOUS GOVERNMENT BODIES OF PUERTO RICO THAT OVERSEE THE ACTIVITIES OF ITS AGENCIES AND CORPORATIONS.**

1. The two parties state that in the selection and treatment of students and professors there will be no discrimination on the basis of sex, race, color, place or date of birth, national origin, social status, physical or mental handicap, political or religious beliefs, or status as a military veteran.

2. The two parties are committed to maintaining records of all reports, timesheets for jobs or assistantships, and all other documents related to the services discussed in this Agreement, in order that they be available for examination or copying by the Office of Internal Auditors of the University of Puerto Rico, by a firm of outside auditors hired by the University of Puerto Rico or by the Office of the Comptroller of Puerto Rico in its auditing of the University of Puerto Rico. Audits will be carried out at reasonable times during the course of the services or after their completion, in accordance with generally recognized auditing practices. Said documents will be kept for a period of no less than six (6) years or until the Office of the Controller of Puerto Rico has made its investigation, whichever occurs first.

The two parties are committed to maintaining records of all reports, timesheets for jobs or assistantships, and all other documents related to the services discussed in this Agreement, in order that they be available for examination or copying by Miami Dade College, by a firm of outside auditors hired by Miami Dade College, or by the Office of the Comptroller of the State of Florida in its auditing of Miami Dade College. Audits will be carried out at reasonable times during the course of the services or after their completion, in accordance with generally recognized auditing practices. Said documents will be kept for a period of no less than six (6) years or until the Office of the Controller of the State of Florida has made its investigation, whichever occurs first.

3. Each of the parties consents to exempt and exonerate the other party from responsibility in the case of any judicial or extrajudicial claim, and to provide indemnization for damages and/or mental or moral anguish that may be suffered by any person or legal entity, when said damages are alleged to have been caused by the negligent, reckless, and/or culpable actions, conduct, or omissions of each party, its agents or employees, when such damages shall have occurred totally or partially during the realization of this Agreement. This clause is subject to the limitations and sovereign immunity provisions of Florida Statutes, Sec. 768.28.

4. Either party may rescind the present agreement by notification thirty (30) days prior to the date of the rescission. One party may immediately cancel the agreement without prior notice upon the other party committing negligence, non-compliance or violation of a condition of the present Agreement.

5. MDC shall not use the name of the University of Puerto Rico, its initials UPR, its stamp, logos, seal, or any other identifying emblem or symbol distinctive of said Institution, for any matter related to the activities that are object of this agreement, without express and written authorization by the University of Puerto Rico.

University of Puerto Rico shall not use the name of Miami Dade College, its initials MDC, its stamp, logos, seal, or any other identifying emblem or symbol distinctive of said Institution, for any matter related to the activities that are object of this agreement, without express and written authorization by Miami Dade College.



## VI. Effective Date

This agreement will in force continuously beginning with the 2009-2010 academic year at both institutions and for each successive year unless otherwise canceled by either institution. Program changes by either institution can be incorporated into this Agreement by written amendment, as agreed to by both parties. If this Agreement is canceled, it will affect only future students, and not any students who have already been enrolled and accepted into either program with the understanding that current MDC Environmental Studies AA students must exercise their right to transfer within two years of the effective date of cancellation.

Having read this document and made aware of the content and scope of each of its clauses, and having indicated that in its formalization there is no fraudulent intent, bad faith, or any other defect that might invalidate the agreement, the parties sign their consent, each keeping two (2) copies. This Articulation Agreement between the University of Puerto Rico – Rio Piedras and Miami Dade College was accepted and approved by the participating entities on this 30 day of September, 2009.

UNIVERSITY OF PUERTO RICO-  
RIO PIEDRAS

Signature obscured  
for security

Dr. Gladys Escalona de Motta  
Chancellor

Signature obscured  
for security

Dr. Sonia Balet  
Dean of Academic Affairs

66-0433767

Identification No. of UPR-RP

UNIVERSITY OF PUERTO RICO  
PO Box 364984  
San Juan, PR 00936-4984

MIAMI DADE COLLEGE

Signature obscured  
for security

Dr. Eduardo J. Padrón  
College President

Signature obscured  
for security

Dr. Rolando Montoya  
College Provost

85-8012557334C-1

Identification No. of MDC

MIAMI DADE COLLEGE  
300 N.E. Second Avenue  
Miami, FL 33132-2297

## Appendix A

### General Education and Major Requirements Equivalency Chart

UPR-RP Equivalents					Miami-Dade AA Equivalents				
<i>Area</i>	<i>Total Credits</i>	<i>Course No.</i>	<i>Credits</i>	<i>Course Name</i>	<i>Area</i>	<i>Total Credits</i>	<i>Course No.</i>	<i>Credits</i>	<i>Course Name</i>
Spanish	6	Spanish 3XXX	6		Take at UPR-RP				
English	6	INGL 3123	3	Writing with Computers I	1. Communications	6	ENC 1101	3	English Composition 1
		INGL 3124	3	Writing with Computers II			ENC 1102	3	English Composition 2
Literature	6	LITE 3012	3	Contemporary Literature	2. Oral Communications	3	LIT 2480	3	Issues in Literature & Culture
		LITE XXXX	3	Generic	3B. Humanities	3	LIT 2120	3	A Survey of World Literature
Mathematical Logic	4	MATE 3151	4	Calculus I	II. Elective (recommended)	5	MAC 2311	5	Calculus and Analytical Geometry I
Natural Science	6	CIBI 3XXX	3	Various courses	Take at UPR-RP				
		CIFI 3XXX	3	Various courses					
Social Sciences	6	CISO 3121	3	Introduction to the Social Sciences I	4A. Behavioral/Social Science	3	ISS 1161	3	The Individual in Society
		CISO 3122	3	Introduction to the Social Sciences II	4B. Behavioral/Social Science	3	ISS 1120	3	The Social Environment
Humanities	6	HUMA 3XXX	3	Various Courses	Take at UPR-RP				
		HUMA 3XXX	3	Various Courses					
Art	3	ARQU 3121	3	Introduction to Architecture	3A. Humanities	3	ARC 2701	3	History of Architecture 1
		ARTE 3199	3	Introduction to Visual Arts			ARH 1000	3	Art Appreciation
		ARTE 3901	3	Fundamentals of Visual Arts I			ARH 2050	3	Art History I
		MUSI 3145	3	Introduction to Musical Art Repertoire	3A. Humanities (Take one of the courses listed)	3	MUL 1010	3	Music Appreciation
							DAN 2100	3	Dance Appreciation
							HUM 1020	3	Humanities
							IND 1100	3	History of Interiors I
							MUH 2111	3	Survey of Music History I
		MATE 3023	2	Precalculus I	II. Elective	6	MAC 1114	3	Trigonometry
		MATE 3024	2	Precalculus II			MAC 1140	3	Pre-Calculus Algebra
							MAC 1147	5	Pre-Calculus Algebra and Trigonometry
		BIOL 3101	4	General Biology I	5A. Natural Science	3	BSC 2010	3	Principles of Biology I



		QUIM 3001	4	General Chemistry I	II. Elective	24	BSC 2010L	2	Principles of Biology 1 Laboratory
					5B. Natural Science	3	CHM 1045	3	General Chemistry and Qualitative Analysis 1
					II. Elective	24	CHM 1045L	2	General Chemistry and Qualitative Analysis 1 Lab
		BIOL 3102	4	General Biology II	II. Elective	24	BSC 2011	3	Principles of Biology 2
		BIOL 3111	3	Ecology	Take at UPR-RP		BSC 2011L	2	Principles of Biology Lab 2
		BIOL 3112	1	Ecology Lab					
		QUIM 3002	4	General Chemistry II	II. Elective	24	CHM 1046	3	General Chemistry and Qualitative Analysis 2
							CHM 1046L	2	General Chemistry and Qualitative Analysis 2 Lab
		CINA 4147	3	Physical Geology	II. Elective	24	GLY 1010	3	Physical Geology
							GLY 1010L	1	Physical Geology Lab
		CINA 3005	3	Introduction to Environmental Science	II. Elective	24	EVR 1001	3	Introduction to Environmental Science
		CINA 3128	2	Planning and Regulation of Natural Resources.	Take at UPR-RP				
		CINA 4071	1	Seminar in Environmental Science (to be offered via teleconference)	II. Elective	24	EVR 1930	1	Environmental Seminar (to be offered via teleconference)
		CINA 4072	1	Seminar in Environmental Science (to be offered via teleconference)			EVR 1930	1	Environmental Seminar (to be offered via teleconference)
		CINA 4127	2	Techniques in the management and conservation of the environment	Take at UPR-RP				
		CINA 4157	3	Management and Conservation of Terrestrial and Aquatic Resources of Puerto Rico	Take at UPR-RP				
		CINA 4177	2	Management and Conservation of Air Resources	Take at UPR-RP				
		CINA 4997	1-3	Research	Take at UPR-RP				
		FISI 3011	3	General Physics I	II. Elective	24	PHY 2048	4	Physics with Calculus 1
		FISI 3013	1	Lab General Physics I	II. Elective	24	PHY 2048L	1	Physics with Calculus 1 Lab
		FISI 3012	3	General Physics II	II. Elective	24	PHY 2049	4	Physics with Calculus 2
		FISI 3014	1	Lab General Physics II	II. Elective	24	PHY 2049L	1	Physics with Calculus 2 Lab
		MATE 3026	3	Introduction to Statistics with computers	Take at UPR				
		QUIM 3015	4	Organic Chemistry	Take at UPR-RP				

Optional Courses	9	CINA 3126	2	Populations, resources, and the environment	Take at UPR-RP				
		CINA 3127	2	Economics of Natural Resources	Take at UPR-RP				
		CINA 4167	2	Land use and management	Take at UPR-RP				
		FISI 3017	3	Energy Production, technology, and the environment	Take at UPR-RP				
		BIOL 3110	2	Ecology of Puerto Rico	Take at UPR-RP				
		QUIM 3025	4	Analytical Chemistry	Take at UPR-RP				
		CINA 3XXX	3		II. Elective	24	PSC 1515	3	Energy in the Natural Environment
		CINA 3XXX	3				PCB 2033	3	Introduction to Ecology
		CINA 3XXX	3				BSC 1050	3	Biology & Environment
		CINA 4995	3	Special Topics: GIS Basic	II. Elective	24	GIS 2040	3	Introduction to GIS

## **APPENDIX B**

### **UPR-RP ADMISSION REQUIREMENTS FOR TRANSFER STUDENTS 2009-2010\***

1. A minimum of 30 credits approved by the College of Natural Sciences. The validation or substitution of required courses will be evaluated once the student has been admitted to the university.
2. General GPA = 2.5
3. Science and Math GPA = 3.0
4. Minimum general application index = 315
5. Calculus I (4 credits) (recommended)
6. Biology I-II with lab (8 credits)
7. Chemistry I-II with lab (8 credits)

\*These requirements are revised annually and are subject to changes.



## APPENDIX C

### GRADUATION REQUIREMENTS UPR-RP ENVIRONMENTAL SCIENCE BACHELOR'S OF SCIENCE DEGREE\*

UPR-RP Requirement		Credits	MDC-N Requirement		Credits	MDC/UPR
<b>I. General Education Requirements</b>		<b>43</b>			<b>18 (22)</b>	
	Social Sciences	6	ISS 1161	The Individual in Society (4A. Behavioral/Social Science)	3	MDC/UPR
	Humanities	6				UPR
	Spanish	6				UPR
	English	6	ENC 1101 ENC 1102	English Composition English Composition 2 (1. Communications)	3 3	MDC
	Literature	6	LIT 2480  LIT 2120	Issues in Literature & Culture ( 2. Oral Communications)  A Survey of World Literature (3B. Humanities)	3 3	MDC
	General Education in Natural Science	6				UPR
	Art	3		3. A. Humanities	3	MDC
MATE 3151	Calculus I	4	MAC 2311	Calculus and Analytical Geometry 1	5(4)	
<b>II. College of Natural Sciences Requirements</b>		<b>27</b>			<b>16 (27)</b>	
BIOL 3101-3102	General Biology	8	BSC 2010/L BSC 2011/L	Principles of Biology 1 & Lab Principles of Biology 2 & Lab	5(4) 5(4)	MDC
FISI 3011-3012	General Physics	6	PHY 2053 PHY 2054	Physics (without Calculus) Physics (without Calculus) 2	3 3	
FISI 3013-3014	General Physics Lab	2	PHY 2053L PHY 2054L	Physics (without Calc) Lab Physics (without Calc) 2 Lab	1 1	
MATE 3026	Statistics	3				UPR
QUIM 3001-3002	General Chemistry	8	CHM 1045/L CHM 1046/L	General Chemistry and Qualitative Analysis 1 & 2 & Lab 1/2	5(4) 5(4)	MDC
<b>III. A. Environmental Sciences Major Requirements</b>		<b>33</b>			<b>8 (16)</b>	
CINA 3128	Planning and Legal Regulations	2				UPR
CINA 4071	Seminar	1	EVR 1930	Seminar in Environmental Science	1	MDC



CINA 4072	Seminar	1	EVR 1930	Seminar in Environmental Science	1	MDC
CINA 3005	Introduction to Environmental Science	3	EVR 1001	Introduction to Environmental Science	3	MDC
CINA 4127	Techniques in Environmental Management	2				UPR
CINA 4147	Physical Geology	3	GLY 1010/L	Physical Geology/Lab	4	MDC
CINA 4157	Aquatic Resources	3				UPR
CINA 4177	Air Resources	2				UPR
CINA 4997	Research	3				UPR
BIOL 3111	Ecology	3				UPR
BIOL 3112	Ecology Lab	1				UPR
QUIM 3015	Organic Chemistry	4				UPR
ECON 3005	Introduction to Environmental Economic	3				UPR
<b>III. B. Optional Environmental Sciences Major Requirements</b>		<b>9</b>			<b>0</b>	
CINA 3126	Populations, resources, and the environment	2				UPR
CINA 3127	Economics of Natural Resources	2				UPR
CINA 4167	Land Use and Management	2				UPR
FISI 3017	Energy Production and the Environment	3				UPR
BIOL 3110	Ecology of Puerto Rico	2				UPR
QUIM 3025	Analytical Chemistry	4				UPR
CINA 3XXX		3	PSC 1515	Energy in the Natural Environment		
CINA 3XXX		3	PCB 2033	Introduction to Ecology		
CINA 3XXX		3	BSC 1050	Biology & Environment		
CINA 4995	Special Topics: GIS Basic	3	GIS 2040	Introduction to GIS		
<b>IV. Free Electives</b>		<b>18</b>			<b>(10)</b>	
Up to 13 credits may be taken in any of the Colleges of the University of Puerto Rico but it is recommended that students take at least 2 or more courses in the College of Natural Sciences.			MAC 1105	College Algebra	3	MDC
			MAC 1114	Trigonometry	3(2)	
			MAC 1140	Pre-Calculus Algebra	3(2)	MDC
			MAC 1147	Pre-Calculus Algebra and Trigonometry	5(4)	
			ISS 1120	The Social Environment	3	MDC

<b>Total credits required:</b>	<b>130</b>			<b>42(73)/Max 65</b>
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\*Students must complete the following if not completed prior to enrollment at UPR-RP:

MATE 3151	Calculus I	4	MAC 2311	Calculus and Analytical Geometry I	5(4)
FISI 3011-3012	General Physics	6	PHY 2048	Physics with Calculus 1	4 (3)
			PHY 2049	Physics with Calculus 2	4 (3)
FISI 3013-3014	General Physics Lab	2	PHY 2048L	Physics with Calculus 1 Lab	1
			PHY 2049L	Physics with Calculus 2 Lab	1
CINA 4147	Physical Geology	3	GLY 1010/L	Physical Geology	4

\*These requirements are revised annually and are subject to changes.