

**ADIRONDACK COMMUNITY COLLEGE**  
Queensbury, NY

AND

**RENSELAER POLYTECHNIC INSTITUTE**  
Troy, NY

**AGREEMENT FOR ARTICULATION OF ENGINEERING PROGRAMS**

The above institutions enter into a 2 + 2 agreement for the transfer of Adirondack Community College (ACC) Engineering Science students into the engineering programs of Rensselaer Polytechnic Institute (Rensselaer). This agreement is designed to assist students to select courses in their academic program that will transfer effectively and will allow students to complete the Bachelor of Science degree at Rensselaer, in their chosen engineering discipline, in two additional years of study.

## Appendix A: Course Equivalencies (a/o 10/20/2009)

### Adirondack Community College Engineering Science A.S.

Cr.

HRD 100	College Learning: Theory & Practice	4
HRD 100A	College Life Seminar	2
HRD 110	Career Exploration	1
ENG 101	Writing I	3
ENG 102	Academic Writing	3
ENG 103	Writing in and about the Sciences	3
ENG 104	Writing in and about the Business and the Prof.	3
ENG 105	Writing in and about the Social Sciences	3
ENG 106	Writing in and about Perf. & Visual Arts	3
ENG 108	Writing in and about Literature	3
ENG 109	Elements of Creative Writing	3
ENG 110	Elements of Technical Writing	3
CHM 111	General Chemistry I	4
EGR 105	Engineering Physics I	4
EGR 106	Engineering Physics II	4
EGR 204	Engineering Physics III	4
EGR 222	Circuit Analysis	4
MAT 131	Calculus I	4
MAT 132	Calculus II	4
	Physical Education	2
	SUNY Gen Ed Humanities	3
	SUNY Gen Ed Social Science	3
MAT 231	Calculus III	4
MAT 232	Differential Equations	4

### Rensselaer Polytechnic Institute

Cr.

NO CREDIT		0
NO CREDIT		0
NO CREDIT		0
WRIT 1000	Writing Elective	3
WRIT 1000	Writing Elective	3
WRIT 1000	Writing Elective	3
WRIT 2000	Writing Elective	3
WRIT 2000	Writing Elective	3
WRIT 2000	Writing Elective	3
WRIT 2000	Writing Elective	3
WRIT 2000	Writing Elective	3
WRIT 2000	Writing Elective	3
WRIT 2000	Writing Elective	3
CHEM 1100	Chemistry I	4
PHYS 1100	Physics I	4
PHYS 1200	Physics II	4
PHYS 1000	Physics Elective	4
ECSE 2010	Electric Circuits	4
	NO CREDIT W/O MATH 132	0
MATH 1010	Calculus I	4
NO CREDIT		0
STSH X000		3
STSS X000		3
MATH 1020	Calculus II	4
MATH 2400	Introduction to Differential Equations	4

**Chemical Engineering Core Elective**

CHM 112	General Chemistry II	4
CHM 203	Organic Chemistry I	4
CHM 204	Organic Chemistry II	4

CHEM 1200	Chemistry II	4
CHEM 2250	Organic Chemistry I	3
CHEM 2230	Organic Chemistry Laboratory I	1
CHEM 2260	Organic Chemistry II	3
CHEM 2230	Organic Chemistry Laboratory II	1

**Electrical Engineering Core Elective**

EGR 183	Digital Logic Design	3
CIS 143	Introduction to Programming	3
CIS 144	Intermediate Programming in Windows Environ.	3
EGR 223	Microprocessor Architecture	4

ENGR 1000	Engineering Elective	3
CSCI 1100	Computer Science I	3
CSCI 1000	Computer Science Elective	3
ECSE 2610	Computer Components and Operations	4

**Mechanical/Civil Engineering Core Elective**

EGR 207	Mechanics I - Statics	3
EGR 209	Mechanics II - Mechanics of Materials	3

ENGR 1100	Introduction to Engineering Analysis	3
ENGR 2530	Strength of Materials	3

**Computer Engineering Core Elective**

EGR 183	Digital Logic Design	3
CIS 143	Introduction to Programming	3
CIS 144	Intermediate Programming in Windows Environ.	3
CIS 243	Data Structures and Objects in C++	4
EGR 223	Microprocessor Architecture	4

ENGR 1000	Engineering Elective	3
CSCI 1100	Computer Science I	3
CSCI 1000	Computer Science Elective	3
CSCI 1200	Data Structures	4
ECSE 2610	Computer Components and Operations	4

**Core Elective**

EGR 109	Engineering Graphics and CAD	3
EGR 180	Introduction to Engineering Design	3
EGR 209	Mechanics II - Mech of Materials	3
EGR 210	Thermodynamics	3
EGR 211	Introduction to Materials Science	3

ENGR 1200	Engineering Graphics & CAD	1
ENGR 2050	Introduction to Engineering Design	3
ENGR 2530	Strength of Materials	3
PHYS 2000	Physics Elective	3
ENGR 1600	Materials Science for Engineers	3