#### AGREEMENT FOR ARTICULATION OF ACADEMIC PROGRAMS

Between

#### CLARKSON UNIVERSITY AND JEFFERSON COMMUNITY COLLEGE

The above institutions enter into a 2+2 agreement for the transfer of Jefferson Community College students into the Wallace H. Coulter School of Engineering at Clarkson University. Accreditation by EAC/ABET ensures students and industry of the academic and professional integrity of Clarkson's School of Engineering and its graduates. This agreement is designed to help students select courses in their academic program that will transfer effectively and will allow students to complete the Bachelor of Science degree at Clarkson in two additional years of study. This agreement applies to the following programs: Aeronautical Engineering, Chemical Engineering, Civil & Environmental Engineering, Electrical Engineering and Mechanical Engineering.

#### **OBJECTIVES OF THIS AGREEMENT**

- 1. To attract qualified students to Jefferson Community College and Clarkson University.
- 2. To promote the efficient transition of transfer students from JCC into one of Clarkson's engineering programs (Aeronautical, Chemical, Civil & Environmental, Electrical, Mechanical) with junior status and the possibility of baccalaureate graduation in four additional semesters of study.
- 3. To provide specific information and guidelines for transfer students.
- 4. To encourage academic coordination and cooperation, including curricular reviews, on-site visitations and joint academic advising for students attending JCC.

#### STIPULATIONS OF THIS AGREEMENT

- 1. This agreement will apply to JCC transfer students who have successfully completed (or are on track to complete) the Associate of Science (A.S.) degree in the Engineering Science.
- 2. Upon application to Clarkson University, after three semesters, students with a minimum grade point average of 2.75 and two faculty recommendations, will be accepted for admission.
- 3. Once students have completed their A.S. in Engineering Science at JCC, a final transfer credit evaluation will be completed at Clarkson. Students must have passed a minimum of 54 credit hours that are transferable in order to receive junior status at Clarkson.
- 4. Clarkson will only consider transfer of courses where the student scores a "C" or better. There are two exceptions: 1) if a "D" is scored in a sequential course, and a "C" or better is scored in the next course of the sequence, then the "D" will be transferred 2) if a student obtains a "C" or better in a course at Clarkson University for which the pending transfer course with a "D" grade is a required pre-requisite, the pending transfer course will be transferable to Clarkson.
- **5.** It is recommended that students consult with the 2+2 Engineering Liaison at JCC, and the Director of Transfer Admission at Clarkson, to ensure proper course selection.

#### MUTUAL RESPONSIBILITIES

- 1. It is the responsibility of both institutions to inform the other if changes are made in the curriculum that may affect the transfer of students. This will be the responsibility of the two designated liaisons.
- 2. The JCC Engineering Liaison will be responsible for assisting the transfer applicant in compiling the required credentials for application, including the transfer application form, official transcripts, and recommendations.

- 3. Clarkson's Director of Transfer Admission will forward a letter of acceptance, a credit evaluation (including both credits accepted and credits remaining to complete the B.S. degree), and a financial aid package if applicable, to the student applicant, upon review of the completed application.
- 4. Transfer students applying under this agreement are eligible for the same financial aid and housing considerations as other entering students.
- 5. As requested, Clarkson University will provide general information on the progress and, if available, post-graduate plans of JCC students who transferred to Clarkson.

#### ASSISTANCE PROVISIONS

- 1. JCC will incorporate a summary of this agreement into official publications.
- 2. JCC and Clarkson University both agree to encourage qualified students to participate in this program by providing advising, information, and other assistance necessary to ensure that an easy transition from JCC to Clarkson University will occur.

#### **REVIEW/REVISION PROVISIONS**

- 1. Review of the contents of implementation of this agreement will occur whenever requested by either JCC or Clarkson University through the designated liaisons. Substantive changes in the courses or program of either institution will evoke review processes. Revisions must be mutually agreed upon, with one-year notice prior to termination of the agreement.
- 2. Designated liaisons for this agreement are:

Edward Knapp Associate Dean for Curriculum & Instruction SUNY Jefferson Community College 1220 Coffeen Street Watertown, NY 13601 Phone: (315) 786-2418, eknapp@sunyjefferson.edu

Patricia J. Bailey Director of Transfer & International Admission Clarkson University, Box 5610 Potsdam, NY 13699 Phone: (315) 268-2125, baileyp@clarkson.edu

#### JCC Curriculum

#### **Equivalent Clarkson Course**

## **Engineering Science Requirements** (24 credit hours):

ENS 100 Engineering Orientation ENS 101 Engineering Graphics ENS 201 Statics ENS 204 Dynamics

Engineering Electives

# Mathematics and Science Requirements (36 credit hours):

PHY 143 Science & Engineering Physics I

PHY 144 Science & Engineering Physics II

PHY 145 Science & Engineering Physics III

CHE 131 General Chemistry I

CHE 132 General Chemistry II

MTH 221 Calculus I

MTH 222 Calculus II

MTH 241 Calculus III

MTH 242 Differential Equations

## **Computer Science Requirements** (3 credit hours):

CIS 116 Intro to Programming-PASCAL Or CIS 126 Intermediate Programming-FORTRAN No Comparable Course See attached transfer chart ES 220 Statics ES 223 Rigid Body Dynamics See attached transfer chart

PH 131 Physics I

See attached transfer chart

See attached transfer chart

CM 131 General Chemistry I

CM 132 General Chemistry II

MA 131 Calculus I

MA 132 Calculus II

MA 231 Calculus III

MA 232 Elem. Diff. Equations

ES 100 Intro to Engineering Use of Computer

# Humanities & Social Sciences Requirements (12 credit hours):

ENG 100: Composition 1 <sup>1</sup>	No Comparable Course
ENG 101: Composition 2	LS 195 Great Ideas I
English Elective (3) ENG 102: Composition & Literature	LS 196 Great Ideas II
Social Science Electives (6) ECO 102 Micro-Economics <sup>2</sup>	SOC Foundation Courses or Electives EC 151 Principles of Macroeconomics

<sup>&</sup>lt;sup>1</sup> The ENG 101 and ENG 102 sequence will allow JCC students to receive credit for LS 195 and LS 196 at Clarkson.

 $<sup>^{2}</sup>$  Students should take ECO 102 as one of their Social Science Electives. This will transfer in as EC 151 at Clarkson, a required course for engineering students.

### Clarkson Course Equivalent

JCC Course	Credits	Civil	Chemical	Mechanical	Aeronautical	Electrical
ENS 101 Engineering Graphics	3	CE002 (Professional Elective)	ES002 (Technical Elective)	ME212 Intro to Eng Design (w/ENS199A and ENS199B)	AE212 Intro to Eng Design (w/ENS199A and ENS199B)	ES100 Intro to Eng Use of Computer or Undesignated Elective
PH144 Science & Engr Physics II	4	PH002 (Professional Elective)	PH002 (Technical Elective)	PH002 (Professional Elective) or PH001 (Undesignated Elective)	PH002 (Professional Elective) or PH001 (Undesignated Elective)	PH132 Physics II or PH001 (Undesignated Elective)
PH145 Science & Engr Physics III	4	PH132 Physics II	PH132 Physics II	PH132 Physics II	PH132 Physics II	PH132 Physics II or PH001 (Undesignated Elective)
CIS116 or CIS126 Pascal/Fortran	3	ES100 Intro to Eng Use of Computer	ES 100 Intro to Eng Use of Computer	ES100 Intro to Eng. Use of Computer	ES100 Intro to Eng Use of Computer	Use of Computer or Undesignated Elective
Suggested Engineering Science Electives By Major	6	ENS206 Mechanics of Materials	CHE211/211L Org Chem I w/Lab	ENS206 Mechanics of Materials	ENS206 Mechanics of Materials	ENS207 Electrical Science
		ENS207 Electrical Science	CHE212/212L Org Chem II w/Lab	ENS207 Electrical Science	ENS207 Electrical Science	MTH245 Linear Algebra
			ENS207 Electrical Science			

Jefferson Community College Approval	Clarkson University Approval			
Joseph B. Olson Date President	Anthony G. Collins Date President			
Katherine F. FenlonDateAcademic Dean	Thomas Young Date Provost			
Linda C. Dittrich Date Associate Dean, Math and Science	S.S. Venkata Date Dean, Wallace H. Coulter School of Engineering			
Michael White Date Department Chair, Math and Engineering	Suzanne Liberty Date Vice President, Admission and Alumni & Parent Relations			
Rosanne N. Weir-LaPlante Date of Admission	Patricia J. Bailey Date Dire Director, Transfer & International Admission			