DUAL DEGREE PROGRAM

STOCKTON UNIVERSITY

AND

RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY

STATEMENT OF AGREEMENT

This Dual Degree Program Agreement ("Agreement"), effective as of the date of the last signature hereto, is made by and between Rutgers, The State University of New Jersey ("Rutgers") and Stockton University ("Stockton").

This Agreement describes six courses of study leading to a Bachelor of Science degree from Stockton University and a Bachelor of Science in Engineering degree from the School of Engineering, Rutgers, The State University of New Jersey. Students are admitted to Stockton University as first year students and remain matriculated at Stockton for three years or their academic equivalent. The fourth and fifth years, or their academic equivalent, are spent at Rutgers School of Engineering. A student who has declared an intention to pursue a dual degree program will be admitted to the fourth year of study at Rutgers upon the recommendation of the Dean of Natural Science and Mathematics of Stockton University. A Bachelor of Science in Chemistry, Physics or Mathematics will be awarded by Stockton University after completion of the fourth year of the program, if all degree requirements of Stockton have been met. The Bachelor of Science in Engineering will be awarded by the School of Engineering, Rutgers University, after a fifth year of study and completion of the degree requirements at Rutgers.

At present, the six Rutgers degrees offered in this dual degree program are the Bachelors of Science in Aerospace, Biomedical, Chemical, Civil, Electrical & Computer, and Mechanical Engineering. The Baccalaureate Stockton degree in Chemistry, Physics or Mathematics, will be awarded in conjunction with the aforementioned programs.

The combined strengths of our two institutions offer unique challenges and opportunities to students who elect to pursue one of these dual degree programs. The combined curricula recognize the value of a college education that provides a broad cornerstone for lifelong learning and growth, as well as the importance of a sound technical and professional competency in an Engineering discipline.

The undersigned do hereby warrant and represent that this Agreement has not been solicited or secured, indirectly or directly, in a manner contrary to the laws of the State of New Jersey and that said laws have not been violated and shall not be violated as they relate to the procurement or performance of this Agreement by any conduct, including the paying or giving of any fee, commission, compensation, gift, gratuity, or consideration of any kind, directly and indirectly to any State employee, officer or official.

Each party does hereby warrant and represent that it is qualified by training and experience to perform the required services and programs in the manner and on the terms and conditions set forth herein.

GENERAL DESCRIPTION

The two institutions jointly offer a five-year program of study leading to a Bachelor of Science degree in Chemistry, Physics or Mathematics from Stockton University and a Bachelor of Science in Engineering degree from the School of Engineering, Rutgers University. The degree programs available at Rutgers

University as part of this joint offering are Aerospace, Biomedical, Chemical, Civil, Electrical & Computer, and Mechanical Engineering. The Baccalaureate degree from Stockton University is in Chemistry, Physics or Mathematics.

The student typically enters as a fully matriculated first year student at Stockton University and continues studies for three years at Stockton University. During this three year period, the bulk of the requirements for a degree from Stockton University are satisfied. Included are extensive studies in the liberal arts and social sciences as well as departmental requirements for the Stockton Baccalaureate degree. During the fourth and fifth years of the program, the student is fully matriculated at Rutgers University. During these two years, the course of study is focused on the required engineering courses needed to complete the engineering degree, with certain of these courses being required by Stockton University for fulfillment of its degree requirements. The dual degree program fully satisfies the requirements of the individual degree programs at Stockton University and Rutgers University.

The Bachelor of Science degree in Chemistry, Physics or Mathematics, is awarded by Stockton University after the fourth year of study in the program if all degree requirements have been met. It is expected that the student will apply for the dual-degree program at the time of admission as first year student. A student who wishes to apply after admission needs to make a written request to apply for the dual degree program. Some of the six degree programs may require some study at Rutgers during the summer of the third year if the degree requirements are to be completed in the five-year period.

The program is obviously a challenging one and admission requirements reflect that challenge. Details of the admission procedures, registration process, and the six specific degree programs are contained on the following pages.

DETAILS - ADMISSIONS, CREDENTIALS, REGISTRATION AND FEES

In general, a first year student entering Stockton University with inadequate high school preparation (less than four years of mathematics and three years of science) or with a mathematics SAT score below 600 will not be encouraged to enroll in the dual degree program. Students who transfer to Stockton University from another institution and wish to join the dual degree program will be required to have a cumulative GPA of at least 2.75/4.0 and an average GPA of at least 2.75/4.0 in science and math. They are also required to meet all academic standards described herein and may not be able to complete the program in a total of five academic years. Normally, students must be enrolled at Stockton University for at least one academic year before they are eligible for transfer to Rutgers University.

To satisfy the dual degree requirements within five years, a student must declare an intention to pursue a dual degree program at the time of application to Stockton as a first year student. A later declaration may make it impossible to satisfy the dual degree requirements within five years. The program may also exceed five years if the student is unable to complete certain second-year engineering courses (included in the addendum) that should be taken in the summer of the third year prior to enrolling for the fourth year of the program at Rutgers University or is unable to complete all of the required courses in a satisfactory manner.

The Dean of Natural Science and Mathematics at Stockton will consult with the Dual-degree Engineering Committee at Stockton before recommending admission to the final two years at Rutgers for any student. In general, a student must earn an average GPA of at least 2.75/4.0 in science and mathematics and a cumulative GPA of at least a 2.75/4.0 during the first two and half years at Stockton in order to be eligible

for admission to the final two years at Rutgers. At the beginning of the spring semester of the third year, the Stockton Coordinator of the dual degree program will provide the coordinator at the School of Engineering, Rutgers University, with the names of all eligible students selected by Stockton for transfer to Rutgers in the fourth year of the program. The School of Engineering coordinator will then arrange for the registration and orientation of students during the summer term for the following fall semester at Rutgers. The designated coordinator for this program at Rutgers School of Engineering is normally the assistant dean that oversees the transfer program or as assigned by the associate dean of undergraduate education. Final authorization to enroll for the fourth year at Rutgers University is contingent upon satisfactory completion of the third year at Stockton University.

In the case of students who do not receive the Dean's recommendation, automatic acceptance to the final two years of the program at Rutgers University will not be granted. However, Stockton students may apply for direct admission to Rutgers as transfer students at any time during their tenure at Stockton University and will be subject to standard transfer admissions procedures at Rutgers University.

CREDENTIALS

Candidates for acceptance to the fourth year of the dual degree program at Rutgers are not required to submit SAT or ACT scores. They are required to complete Rutgers' on-line transfer student application and submit Stockton transcript and copies of secondary school (or GED) records. A transfer application fee (as determined by Rutgers Admissions) is also required.

ACCEPTABLE GRADES

Courses in which a grade of "C" or better has been earned, and which are contained in the list of course equivalencies (see addendum) will be accepted by both institutions for their respective degrees. Any course in which a grade of "D" or lower is earned at one institution, and which is required for the degree at the other institution, must be repeated.

Specifically, the requirements of this Agreement include the following:

Completion of all Stockton University curriculum requirements, including General Studies requirements and the degree program requirements for their respective major(s).

A cumulative grade point average of 2.75/4.0 or better; with a "C" or better in each science and mathematics course; and a grade point average of 2.75/4.0 in all science and mathematics courses. Note that Rutgers and Stockton University reserve the right to consider students on an individual basis with an average below 2.75/4.0.

No final grade of "D", "F" or "I" in any prerequisite course required for admission to Rutgers.

The grading policies and the course of studies in the dual degree program shall be set forth in the Stockton University catalog for the Bachelor of Science degree and the Rutgers catalog for the dual degree. Each institution shall be in possession of these materials. All proposed changes to the dual degree program must conform to Stockton University requirements for the Bachelor of Science degree and to the admissions requirements at Rutgers. All proposed changes to the dual degree program shall be submitted, in writing, to each institution at least six months prior to anticipated implementation.

FOLLOW-UP

At least once every two years, Stockton University and Rutgers University faculty shall meet to discuss academic programs, especially with regard to any changes contemplated that may affect the dual degree program. The purpose of such meetings will be to ensure that any changes in the curricula of either institution is known to the other and will not cause unnecessary difficulty for students in the dual degree program.

REGISTRATION AND FEES

Tuition and fees shall be charged by each institution at the per credit cost of that institution. During the first three years, the student will be fully matriculated at Stockton. During these three years courses taken at Rutgers University will be billed directly to the student who will be considered a non-matriculate.

Any scholarships awarded by either institution will apply only to the courses offered by that institution.

During the fourth and fifth year of study, the student will be fully matriculated at Rutgers University. Any courses taken at Stockton University during this period will be reported directly to the coordinator at School of Engineering, Rutgers University, to ensure the student's continuing full-time status. During the fourth year of study and until the student's graduation from Stockton University, Stockton requires that the student be registered each semester for at least one non-credit course, ENGN4600, at Stockton to expedite the degree granting review process when the student applies for graduation from Stockton.

An addendum to this Agreement shall be developed for the purpose of providing guidance and direction to students, academic advisors, and admissions officers, to facilitate the specific course-by-course components of this dual degree agreement.

INDEMNIFICATION

To the extent permitted by law, Stockton University shall indemnify and hold harmless Rutgers, its agents, and employees, from any and all liability, and expense (including reasonable attorneys' fees) arising from the negligence of Stockton University, agents and employees, in conjunction with or arising out of the activity which is the subject of this Agreement.

To the extent permitted by law, Rutgers shall indemnify and hold harmless Stockton University, its agents, and employees, from any and all liability, and expense (including reasonable attorneys' fees) arising from the negligence of Rutgers, agents and employees, in conjunction with or arising out of the activity which is the subject of this Agreement.

GENERAL PROVISIONS

There shall be no discrimination against any employee or student engaged in the work required to produce the services and programs covered by this Agreement, or against any applicant for such employment because of age, race, creed, color, national origin, sex, marital status, ancestry, nor handicap. This provision shall include, but not be limited to the following: employment, upgrading, transfer, demotion, recruitment

or recruitment advertising, termination or layoff, rates of pay or other forms of compensation, selection or training.

This Agreement shall have a term of five (5) years, commencing July 1, 2023, and terminating on June 30, 2028. Thereafter, the term of the Agreement shall automatically renew for additional 5-year terms unless either party provides written notice of termination to the other party at least 90 days prior to a renewal date. It is further agreed that if either party terminates this Agreement, and notwithstanding any other provision of this Agreement to the contrary, both parties will assume a responsibility to all students enrolled in the dual degree program as of the date of the termination notice, to permit said students to complete the dual degree program.

This Agreement shall be binding upon the parties hereto and to their successors.

This Agreement represents the entire agreement between the parties. All negotiations, oral agreements, and understandings are merged herein, and any change in the terms herein must be made in writing and signed by both parties.

Any notice by either institution to the other regarding this Agreement should be in writing and should be sent by mail and addressed to the appropriate institution, either:

1) The Dean, School of Engineering, Rutgers, The State University of New Jersey, 500 Bartholomew Road, Piscataway, NJ 08854; or

2) The Provost and Vice President for Academic Affairs, Stockton University, 101 Vera King Farris Drive, Galloway, NJ 08205-9441

Stockton University and Rutgers University agree to the establishment of a Science/Engineering Dual Degree Program in an effort to facilitate the entrance of Stockton students into the engineering profession.

Signatures

IN WITNESS WHEREOF, The undersigned represent that they have the requisite authority to sign this Agreement on behalf of their respective institutions. The institutions have duly executed and delivered this Agreement as of the dates set forth below.

Stockton University

Marissa Levy

Interim Provost and V. P. for Academic Affairs

Date: …6/15/2023……

Rutgers, The State University of New Jersey

Alberto M. Cuitiño

Dean, School of Engineering

Date: 6/19/2023 ……

Addendum

A- Courses taken in the summer of third year at Rutgers' University

Biomedical Engineering:
Students must complete Intro to Biomedical Engineering 14:125:201 and Systems Physiology 14:125:255 in the summer prior to starting in the Fall to be a junior and be eligible to take junior BME classes.

Chemical Engineering:
Students must complete Material and Energy Balances 14:155:201 and Thermodynamics I 14:125:208 in the summer prior to starting in the Fall to be a junior and be eligible to take junior BME classes.

B- List of Course Equivalencies

Stockton University	Rutgers School of Engineering	Notes
PHYS 2220/5 Physics I/Lab	01:750:123 + 124 Analytical Physics IA + IB	
PHYS 2230/5 Physics II/Lab	01:750:227/29 Analytical Physics IIA/lab	
PHYS 3010 Physics III (includes a lab)	01:750:228/30 Analytical Physics IIB/Lab	
PHYS 3345 Math Methods for Engineers and Scientists	01:640:244 Differential Equations	PHYS 3345 combines Diff Eqns and L. Algebra
PHYS 3110 Electronics +PHYS 3120 Circuits	14:332:221+222+223+224 Prin. Of Elec Engineering I& II/Labs	
PHYS 2300 Statics	14:440:221 Statics	
PHYS 3220 Mechanics	14:440:222 Dynamics	
PHYS 3200 Mech. of Materials	14:650:291 Mechanics of Materials	
PHYS 2410 Problem Solving Using MATLAB	14:440:127 Intro to Computers for Engineers	
Other PHYS 3xxx (taken at Stockton)	Technical Electives	
CHEM 2110/5 Chemistry I/Lab (Gen. Principles)	01:160:159 Gen Chem for Engrs+01:160:171 Intro to Experimentation	
CHEM 2140/5 Chemistry IV/Lab (Gen. Principles)	01:160:160 Gen Chem for Engrs	
CHEM 2120 Organic Structure/Lab	01:160:307 Organic Chemistry I	Must complete both CHEM 2120+2130 to get credit for both
CHEM 2130 Organic Reactions/Lab	01:160:308 Organic Chemistry II, 01:160:311 Organic Chem Lab	If only CHEM2120 then General Elective credit
CHEM 3410 Physical Chemistry I	Technical Elective for Chemical Engineering	
Other CHEM 3xxx (taken at Stockton)	Technical Electives	
MATH 2215 Calc I	01:640:151 Calculus for Engrs	
MATH 2216 Calc II	01:640:152 Calculus for Engrs	
MATH 2217 Calc III	01:640:251 Multivariable Calculus	
MATH 3323 Linear Algebra	01:650:250 Linear Algebra	
MATH 3328 Differential Equations	01:640:244 Differential Equations	
Other MATH 3xxx or 4xxx (taken at Stockton)	Technical Electives	
BIOL 1200/5 Biology I (Cells and Molecules)	01:119:115 Gen Biology I (Must complete Biology I and II to gain credit for both)	If only BIOL1200 then just General Elective credit

BIOL 1400/5 Biology II (Biodiversity and Evolution)	01:119:116 Gen Biology II	
CSCI 2101 Programming and Problem Solving (JAVA)	14:440:127 Intro to Computers for Engineers	
FRST 2120 Rhetoric and Composition	01:355:101 Expository Writing	
GAH, GIS and GSS courses	Hum/Soc Electives	
GEN 2180 Engineering Graphics and CAD	14:180:216 CAD for Civil Engineering	SolidWorks is the CAD component
Math 4xxx group II	640:421 Advanced Calculus (taken at Rutgers)	
Cognates (up to 24 credits). These are courses taken at Rutgers and transferred to Stockton.	Selected junior and senior engineering, science, and math courses (taken at Rutgers)	