

THE UNIVERSITY OF TEXAS RIO GRANDE VALLEY  
AND  
SOUTH TEXAS COLLEGE

Articulation Agreement  
B.S. in Electrical Engineering

This AGREEMENT, effective the December 12, 2016, is between The University of Texas Rio Grande Valley (“UTRGV”), a component institution of The University of Texas System, and South Texas College (“STC”), a College having its principal office in McAllen, Texas.

WHEREAS, UTRGV and STC desire to implement an Articulation to provide students enrolled at STC with an opportunity to smoothly transition to and further their educational opportunity at UTRGV.

WHEREAS, successful completion of an academic associate degree at STC is an indicator to UTRGV that the student has completed the appropriate courses, received the necessary instructions and preparation, and that similar knowledge, skills, and student learning outcomes can be expected, enabling the student’s progression to the upper division course sequence or requirement at UTRGV,

NOW, THEREFORE, in consideration of the mutual promises herein, the parties agree to the following:

1.0 Term

This agreement shall be effective for two years from the date of its executive or upon revisions mandated by state requirements. The agreement may be renewed upon the mutual written approval of The University of Texas Rio Grande Valley and South Texas College.

2.0 Courses of Study

UTRGV’s Electrical Engineering Department will accept the complete set of lower division courses from a student who receives an A.S. in Engineering from STC and is admitted to UTRGV.

- The total number of transfer hours will be capped at half the required credit hours needed to earn a B.S. in Electrical Engineering unless otherwise approved by the receiving institution’s department chair.
- All STC courses transferred to UTRGV shall be part of the *Lower Division Academic Course Guide Manual* issued by the Texas Higher Education Coordinating Board.
- For the UTRGV B.S. in Electrical Engineering, the following STC A.S. in Engineering field of study electives will transfer as follows:

STC

ENGR 1201 Introduction to Engineering  
ENGR 2303 Statics & Dynamics *or*  
ENGR 2301 Statics  
ENGR 2405 Electrical Circuits I  
ENGR 2406 Digital Systems  
CHEM 1411 General Chemistry I  
  
MATH 2414 Calculus II  
MATH 2415 Calculus III  
MATH 2420 Differential Equations  
COSC 1436 Fundamentals of Programming

UTRGV

ELEE 1101 Introduction to Electrical Engineering  
  
MECE 2301 Statics  
ELEE 2305/2105 Electric Circuits I/Lab  
ELEE 2330/2130 Digital System Engineering I/Lab  
CHEM 1311/1111 General Chemistry *or*  
CHEM 1307/1107 Chemistry for Engineers  
MATH 2414 Calculus II  
MATH 2415 Calculus III  
MATH 3341 Differential Equations  
CSCI 1380 Computer Science I

- 2.1 In accordance with Sec 61.822 of the Texas Education Code, a student who successfully completes courses in the STC core curriculum will receive academic credit at UTRGV for each of the core courses transferred.
- 2.2 Transfer students must apply for admission and meet requirements to UTRGV and the B.S. in Electrical Engineering. Transfer students are encouraged to complete their A.S. in Engineering at STC prior to completion of their first semester of study at UTRGV. STC and UTRGV faculty will work with students to help promote the completion of the Associates degree in a timely fashion.
- 2.3 This Articulation Agreement will be published and provided as a transfer guide during academic advisement at both institutions.

3.0 Designated Liaison

Each institution designates the following officials to serve as its liaison to coordinate and facilitate activities under this Articulation Agreement and to address any concerns or disputes that may arise relating to the terms and conditions of this Articulation Agreement.

**South Texas College:**

Dr. Enriqueta Cortez  
Chair, Physical Science, Chemistry, and Engineering Dept.

**The University of Texas Rio Grande Valley:**

Dr. Young Zhou  
Chair, Electrical Engineering Dept.

Executed by the undersigned representatives of the two institutions on December 12, 2016


APPROVED:

THE UNIVERSITY OF TEXAS RIO GRANDE VALLEY

SOUTH TEXAS COLLEGE

  
Dr. Havidán Rodríguez  
Provost/Executive Vice President for Academic Affairs

  
Dr. Anahid Petrosian  
Vice President for Academic Affairs

  
Dr. Ali Esmaili  
Dean, Math, Science, and Bachelors Programs

  
Dr. Alexander Domijan, Jr.  
Dean, College of Engineering and Computer Science

**The University of Texas Rio Grande Valley/South Texas College**  
**Suggested Four-Year Road Map for Transfer Students, Academic Year 2016-2017**

This Road Map is a tool to assist you and your advisor in planning your academic program.  
 Use it along with your department's official degree plan.

<b>Degree: BS Major: Electrical Engineering</b>					
First Year - Fall Semester - STC		Hours	First Year - Spring Semester - STC		Hours
ENGL 1301	Composition	3	ENG 1302	Composition II - Rhetoric	3
HIST 1301	U.S. History I	3	PHYS2425	University Physics I	4
MATH 2413	Calculus I	4	COSC 1436	Programming Fundamentals	4
CHEM 1411	General Chemistry I	4	MATH 2414	Calculus II	4
ENGR 1201	Introduction to Engineering	2			
<b>Total Fall Semester Hours</b>		<b>16</b>	<b>Total Spring Semester Hours</b>		<b>14</b>
<b>Summer I</b>			<b>Summer II</b>		
<b>Total Summer I Hours</b>		<b>0</b>	<b>Total Summer II Hours</b>		<b>0</b>
Second Year - Fall Semester - STC		Hours	Second Year - Spring Semester - STC		Hours
HIST 1302	U.S. History II	3	PHYS 2426	University Physics II	4
MATH 2415	Calculus III	4	GOVT 2306	Texas Government	3
GOVT 2305	Federal Government	3	ENGR 2303	Statics & Dynamics	3
Creative Arts Elective		3	ENGR 2406	Introduction to Digital Systems I	4
ENGR 2405	Electrical Circuits	4			
<b>Total Fall Semester Hours</b>		<b>17</b>	<b>Total Spring Semester Hours</b>		<b>14</b>
<b>Summer I</b>			<b>Summer II</b>		
MATH 3341	Differential Equations (STC/UTRGV)	3	MATH 2346	Mathematics for Electrical & Comp	3
<b>Total Summer I Hours</b>		<b>3</b>	<b>Total Summer II Hours</b>		<b>3</b>
Third Year - Fall Semester - UTRGV		Hours	Third Year - Spring Semester - UTRGV		Hours
PHIL2326	Introduction to Ethics	3	ELEE 3435	Microprocessor Systems	4
ELEE 2319	Numerical Computation & Data Visualiz	3	ELEE 3315	Electromagnetic Engineering	3
EIEE 3225	Electrical Engineering Lab I	2	ELEE 4303	Digital Systems Engineering II	3
ELEE 3321	Signals and Systems	3	ELEE 3230	Electrical Engineering Lab II	2
ELEE 3301	Electronics I	3	ELEE 3340	Probablility and Statistics for Elec. Engr	3
ELEE 3101	Electronics I Lab	1			
<b>Total Fall Semester Hours</b>		<b>15</b>	<b>Total Spring Semester Hours</b>		<b>15</b>
<b>Summer I (before Third year FaLL)</b>			<b>Summer II</b>		
ECON 2301	Prin. of Econ. I Macro (STC/UTRGV)	3			
<b>Total Summer I Hours</b>		<b>3</b>	<b>Total Summer II Hours</b>		<b>0</b>
Fourth Year Fall Semester - UTRGV		Hours	Fourth Year Spring Semester - UTRGV		Hours
ELEE 3302	Electronics II	3	EIEE 4328	Solid State Electronic Devices	3
Tech Elective		3	EIEE 4351	Communication Theory	3
EIEE 4361	Senior Design I	3	ELEE 4362	Senior Design II	3
EIEE 4321	Automatic Control Systems	3	Tech Elective		3
Tech Elective		3			
<b>Total Fall Semester Hours</b>		<b>15</b>	<b>Total Spring Semester Hours</b>		<b>12</b>

This degree requires a Minor, 125 total degree hours, and a minimum 42 advanced hours (3000-4999 level).

<b>Total Degree Hours</b>	<b>127</b>
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Updated 6/10/2016

\* Demonstration of second language proficiency is a requirement of all degrees at UTRGV