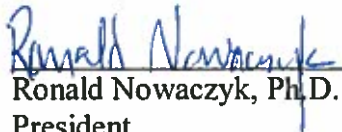


# ARTICULATION AGREEMENT

**Garrett College**  
**Associate of Science in Engineering Program**

**Frostburg State University**  
**Bachelor of Science in Engineering**

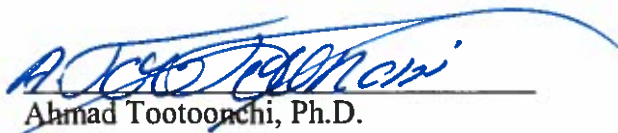
Entered into this 20<sup>th</sup> day of December, 2016.

  
\_\_\_\_\_  
Ronald Nowaczyk, Ph.D.  
President

Frostburg State University

  
\_\_\_\_\_  
Richard Midcap, Ed.D.  
President

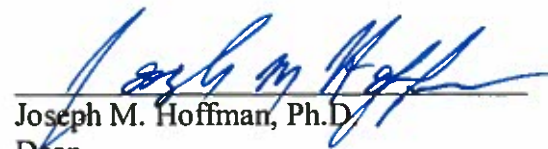
Garrett College

  
\_\_\_\_\_  
Ahmad Tootoonchi, Ph.D.  
Interim Provost

Frostburg State University

  
\_\_\_\_\_  
Sarah Garrett, J.D.  
Vice President for Instruction and

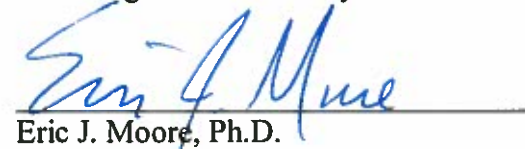
Student Services  
Garrett College

  
\_\_\_\_\_  
Joseph M. Hoffman, Ph.D.  
Dean

College of Liberal Arts and Sciences  
Frostburg State University

  
\_\_\_\_\_  
Qing Yuan, Ed.D.  
Dean

Academic Affairs  
Garrett College

  
\_\_\_\_\_  
Eric J. Moore, Ph.D.  
Chair

Department of Physics and Engineering  
Frostburg State University

This agreement is effective with new Frostburg State University admits Spring 2017.  
This agreement will be reviewed annually.

## ARTICULATION AGREEMENT

Garrett College, Associate of Science in Engineering  
and  
Frostburg State University, Bachelor of Science in Engineering.

### RECITALS

Garrett College (hereafter referred to as "GC"), a community college in Garrett County, Maryland, and Frostburg State University ("FSU"), a comprehensive regional institution in Western Maryland and a constituent institution of the University System of Maryland, agree to offer an articulated program leading to the award of an Associate of Science in Engineering (A.S.E.) Degree and a Bachelor of Science (B.S.) in Engineering. The parties further agree that students from GC, through this articulation agreement, will be permitted to transfer credits earned for the A.S.E. at GC to FSU, leading to the award of the B.S. degree in Engineering at FSU. The only concentration available pursuant to this agreement is electrical engineering.

#### I. Purpose

- a. It is the intent that this articulation agreement will facilitate a smooth transition from GC's Associate of Science in Engineering program to the B.S. in Engineering program at FSU. As a result of this articulation agreement, GC graduates will understand how FSU transfers the credits earned at GC. This agreement provides a systematic plan for students to receive both the A.S.E. degree from GC and the B.S. degree in Engineering from FSU.
- b. This agreement sets forth a clear set of responsibilities and expectations for both institutions. The parties agree to work collaboratively to meet the needs of GC graduates in facilitating transfer to FSU.
- c. GC encourages graduates to continue their educational pathway in engineering for both personal and professional development, as well as career advancement in the engineering profession. This articulation agreement for completion of the B.S. in Engineering facilitates students' successful achievement of credentials in the field.

## **II. Requirements of the Program**

- a. The program is designed for graduates of the A.S.E. degree in Engineering at GC. Students must have completed the A.S.E. degree at GC in order to enter into the transfer program. A maximum of seventy (70) credit hours from GC will be allowed toward fulfillment of the one hundred twenty (120) credit hours required for completion of the B.S. degree.
- b. Students completing the A.S.E. in electrical engineering program from GC will have their coursework transferred in as a block, fulfilling all of FSU's general education requirements, as well as freshman and sophomore discipline requirements. These students will matriculate at FSU with junior standing.
- c. In accordance with Code of Maryland Regulations (COMAR), all courses meeting general education requirements at GC will transfer to FSU as general education courses.
- d. Students must maintain a minimum of a 2.0 cumulative grade point average in order to transfer to the FSU Engineering Program.
- e. The maximum number of credits that will be accepted by FSU toward degree requirements from non-direct classroom instruction (including CLEP, AP, IB and FSU Special Departmental examination scores) is thirty (30) credits. Tech Prep credits will transfer where appropriate, as will credit awarded for experiential learning ("life experience") if recorded on GC's transcript.
- f. While GC and FSU do not presently have a dual admission program, if the parties later enter into such a program, this agreement will not preclude students from participation and students may apply for and receive the benefits of dual admission. Those students shall then be subject to the policies of said program should they apply.
- g. GC students who have completed the A.S.E. degree will be given every consideration for financial assistance and will be eligible to compete for academic scholarships at FSU.
- h. This agreement becomes effective on the date set forth on the first page of this document. GC and FSU agree to publicize this program. The parties further agree to monitor the performance of the program and to make revisions as may be mutually agreed upon as necessary. Curricula for engineering programs undergo frequent change and this agreement will be amended to reflect such changes as they occur. Amendments will be made in writing and appended to this agreement. Amendments need only be approved by the deans and chairs from both institutions.

- i. This agreement may be terminated by either party with ninety (90) days written notice to the other. The parties agree that termination shall include an agreement that students currently enrolled in the program at the time of termination shall be permitted to complete the program as described herein.

### III. A.S.E. - B.S. in Engineering Transfer Courses

The following indicates the transfer of course agreement between the GC and FSU:

- a. General Education Requirements  
FSU's general education program requirements will be fulfilled in their entirety through completion of the A.S.E. degree at GC.

- b. Degree Program Requirements to be Completed at GC

By completing the A.S.E. degree in electrical engineering at GC, students will have completed their introductory physics sequence, chemistry requirements, mathematics requirements, and all 100-200 level electrical engineering courses.

- c. Degree Program Requirements to be Completed at FSU

All FSU bachelor's degree candidates must complete a minimum of 39 upper-division (300-400) credit hours.

Frostburg State University			Notes
Course Number	Course Title	Credit Hours	
ENME 350	Electronics and Instrumentation I	3.0	
ENME 351	Electronics and Instrumentation II	3.0	
ENEE 380	Electromagnetic Theory	3.0	
ENGL 338	Technical Writing	3.0	
ENES 310	Mechatronic and Robotic Design	3.0	
ENES 401	Fundamentals of Energy Engineering	3.0	
ENEE 350	Computer Organization	3.0	
ENEE 303	Analog and Digital Electronics	3.0	
ENEE 307	Electronic Circuits Design	2.0	
ENES 491	Seminar	3.0	
ENEE 439	Topics in Signal Processing	3.0	
ENEE 475	Power Electronics	3.0	
ENEE 408	Capstone Design Project	3.0	
	300-400 level Technical Electives	6.0	Any 300-400 level ENEE,

			ENES, or ENME course, or CHEM 304
	Electives (any)	12.0	To achieve required credits for graduation
Total = 56			

d. Course Sequencing

A.S.E. students transferring to the Engineering Program at FSU shall be notified by GC and FSU that the Engineering curriculum is built upon a series of established course sequences. For students to progress through the program, they must have the appropriate pre-requisites, co-requisites, and must maintain a minimum 2.0 GPA.

Students wishing to participate in the program should develop an education plan at GC by contacting:

Dr. Qing Yuan  
 Director of Business, Information Technology, and Engineering  
 Garrett College  
 301-387-3043  
[qing.yuan@garrettcollege.edu](mailto:qing.yuan@garrettcollege.edu)

GC will direct students interested in participating in the Engineering Transfer program to apply for admission to FSU, indicating Engineering as the intended major. Applications can be submitted online at: [www.frostburg.edu](http://www.frostburg.edu).

Contact person at FSU for the program is:

Eric J. Moore, Ph.D.  
 Chair, Department of Physics and Engineering  
 Frostburg State University  
 301-687-4500  
[ejmoore@frostburg.edu](mailto:ejmoore@frostburg.edu)

**Appendix I  
Course Equivalencies**

<b>Garrett College Course</b>	<b>Credits</b>	<b>FSU Equivalent</b>	<b>Notes</b>
ENR 100	3.0	ENES 100	
CIS 170	4.0	ENEE 114	
ENR 210	3.0	ENEE 204	
ENR 211	2.0	ENEE 206	
ENR 240 and 241	4.0*	ENEE 244	4 credit course at GC but transfers to FSU as 3 credits
ENR 230	3.0	None	200-level elective
PHY 111	5.0	PHYS 261 and 264	
PHY 112	5.0	PHYS 262 and 263	