



**Suggested Transfer Pathway**  
**Montgomery College A.S. in Electrical Engineering to**  
**Frostburg State University B.S. in Electrical Engineering**  
 Catalog Year: 2018-2019



**0 - 35 Credits – Montgomery College**

	<b>Cr</b>
ENGL101 College Writing (if needed for ENGL102)	3
ENES100 Intro to Engineering Design	3
ENEE140 Intro to Programming Concepts	2
MATH181 Calculus I	4
CHEM132 or CHEM135	4
<b>Total Credits</b>	<b>16</b>

(Courses may be taken in any order)

	<b>Cr</b>
ENGL102 Critical Reading, Writing and Research	3
ENEE150 Intermediate Programming Concepts	3
ENEE244 Digital Logic Design	3
MATH182 Calculus II	4
PHYS161 General Physics I: Mechanics and Heat	3
Behavioral and Social Sciences Distribution *	3
<b>Total Credits</b>	<b>19</b>

**36 - 69 Credits – Montgomery College**

	<b>Cr</b>
ENEE222 Elements of Discrete Signal Analysis	4
MATH280 Multivariable Calculus	4
PHYS262 Physics II: Electricity and Magnetism	4
Arts Distribution	3
Humanities Distribution	3
<b>Total Credits</b>	<b>18</b>

	<b>Cr</b>
ENEE207 Electric Circuits	4
ENEE245 Digital Circuits and Systems Laboratory	2
MATH282 Differential Equations	3
PHYS263 Physics III: Waves, Optics, Modern Physics	4
Behavioral and Social Sciences Distribution *	3
<b>Total Credits</b>	<b>16</b>

*Apply to graduate from Montgomery College with an Associate of Science in [Electrical Engineering](#)*

\* Behavioral and Social Science Destruction courses must come from different disciplines

**Year Three – Frostburg State University**

<b>Fall Semester</b>	<b>Cr</b>
EL-200 Electronic Devices/Circuits	3
EL-262 Microprocessors/Microassembly	3
EE-304 Digital Design I	3
MA-345 Probability/Stats for Engineers	3
SS-351 Ethics	3
EN-102 English Communications II	3
<b>Total Credits</b>	<b>18</b>

<b>Spring Semester</b>	<b>Cr</b>
EL-250 Advanced Analog Circuits	3
EL-261 Intro/Commun Circuits/Systems	3
EE-362 Microcontroller System Design	3
EE-309 Circuit Design and Simulation	3
BUS-301 Project Management	3
<b>Total Credits</b>	<b>15</b>

**Year Four – Frostburg State University**

<b>Fall Semester</b>	<b>Cr</b>
EN-408 Writing Sem in Tech Research	3
EE-359 High Frequency Circuit Design	3
EE-406 Signals and Systems	3
EE-453 Control I	3
HU-331 OR HU-332 Arts and Ideas	3
<b>Total Credits</b>	<b>15</b>

<b>Spring Semester</b>	<b>Cr</b>
EE-456 Digital Signal Processing	3
EE-458 Senior Project	3
EE-460 Electromagnetic Fields	3
EE-461 Communications Theory	3
<b>Total Credits</b>	<b>12</b>

MC [A.S. in Electrical Engineering](#) to Frostburg State University [B.S. in Electrical Engineering](#)

Total Credits: 66, Catalog Year 2018-2019

Name:	Date:	ID#	
<b>General Education Courses</b>	<b>COURSE</b>	<b>HRS</b>	<b>GRADE</b>
English Foundation (ENGL102)	ENGL102	3	
Math Foundation (Calculus I)	MATH181	4	
<b>Distribution Courses</b>	<b>COURSE</b>	<b>HRS</b>	<b>GRADE</b>
General Physics I: Mechanics and Heat	PHYS161	3	
General Physics II: Electricity and Magnetism	PHYS262	4	
Arts Distribution		3	
Behavioral and Social Sciences Distribution *		3	
Behavioral and Social Sciences Distribution *		3	
Humanities Distribution			
<b>Program Requirements</b>	<b>COURSE</b>	<b>HRS</b>	<b>GRADE</b>
ENGL101 (if needed for ENGL102/ENGL103, general elective if not)		(3)	
CHEM135 General Chem for Engineers or CHEM132 Principles of Chem II	CHEM100	3	
Intro to Programming Concepts for Engineers	ENEE140	2	
Intermediate Programming Concepts for Engineers	ENEE150	3	
Electric Circuits	ENEE207	4	
Elements of Discrete Signal Analysis	ENEE222	4	
Digital Logic Design	ENEE244	3	
Digital Circuits and Systems Laboratory	ENEE245	2	
Calculus II	MATH182	4	
Multivariable Calculus	MATH280	4	
Differential Equations	MATH282	3	
General Physics III: Waves, Optics and Modern Physics	PHYS263	4	
<b>General Education Electives</b>	<b>COURSE</b>	<b>HRS</b>	<b>GRADE</b>
ENES100 Intro to Engineering Design	ENES100	3	

\* Behavioral and Social Science Destruction courses must come from different disciplines

[www.frostburg.edu/dept/engn](http://www.frostburg.edu/dept/engn)

**Frostburg Contact:** Dr. Eric Moore, Department Chair,

