

**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 – Capitol Technology 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 - Capitol Technology 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 Capitol [B.S. in Electrical Engineering](#)

Total Credits: 66, Catalog Year 2017-2018

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	

[www.capitol-college.edu/main/academics/undergraduate-academics/bachelor-degree-programs/electrical-engineering](http://www.capitol-college.edu/main/academics/undergraduate-academics/bachelor-degree-programs/electrical-engineering)

**Contact Information:** Dr. Nayef Abu-Ageel ([nmabuageel@captechu.edu](mailto:nmabuageel@captechu.edu)) (240-965-2468)

## TRANSFER SCHOLARSHIPS

Eligibility requires completion of your degree (A.S./A.A.S) at the community college. Students are eligible for additional scholarships for which they qualify as well as federal grants and loans.

## REACH HIGHER. GO FURTHER. TRANSFER TO CAPITOL TECHNOLOGY UNIVERSITY.

You've been working hard toward building the foundation for a bachelor's degree. Capitol Technology University is ready to take you the rest of the way.

We have small class sizes, professors who are industry experts and a hands-on approach to education. And, we've led the field with transfer scholarships up to \$10,000 per year and agreements with community colleges just like yours!

- **Innovative, in-demand programs** in engineering, computer science and technology programs
- **50% tuition cut** for all business students
- **State-of-the-art technology, facilities and housing**
- **Tuition lock program** that keeps your tuition low throughout your college career
- **Beautiful 52-acre campus** in the Washington, D.C. suburb of Laurel, MD
- **Local and regional partnerships** with more than 56 corporations, government agencies and contractors
- **Job guarantee for all qualified undergraduates**

See if you qualify for a Capitol Technology University Merit Scholarship

Credits GPA	AA or Higher	60+CR	48+CR	36+CR	24+CR	12+CR
4.0	\$10,000	\$10,000	\$10,000	\$9,500	\$9,000	\$8,500
3.9	\$10,000	\$10,000	\$9,500	\$9,000	\$8,500	\$8,000
3.8	\$10,000	\$9,500	\$9,000	\$8,500	\$8,000	\$7,500
3.7	\$9,500	\$9,000	\$8,500	\$8,000	\$7,500	\$7,000
3.6	\$9,000	\$8,500	\$8,000	\$7,500	\$7,000	\$6,500
3.5	\$8,500	\$8,000	\$7,500	\$7,000	\$6,500	\$6,000
3.4	\$8,000	\$7,500	\$7,000	\$6,500	\$6,000	\$5,500
3.3	\$7,500	\$7,000	\$6,500	\$6,000	\$5,500	\$5,000
3.2	\$7,000	\$6,500	\$6,000	\$5,500	\$5,000	\$5,000
3.1	\$6,500	\$6,000	\$5,500	\$5,000	\$5,000	\$4,500
3.0	\$6,000	\$5,500	\$5,000	\$5,000	\$4,500	\$4,000

\*Grid is based on credits earned, not on credits accepted into Capitol Technology University.

\*Scholarship amounts for Business majors are half that of any grid calculations above.

\*Actual scholarship amounts may increase when subject to a complete applicant review.

\*Award amounts are for full-time laurel campus applicants. Satellite campus awards vary according to per credit tuition costs.

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### Degree Programs

- Astronautical Engineering
- Business Administration
- Computer Engineering
- Computer Engineering Technology
- Computer Science
- Electrical Engineering
- Electronics Engineering Technology
- Cyber and Information Security
- Management of Cyber and Information Technology
- Software Engineering
- Software and Internet Applications
- Telecommunications Engineering Technology
- Mobile Computing and Game Programming

### The Capitol Job Guarantee

We guarantee our qualified bachelor's degree graduates placement in their field with a competitive salary within 90 days of graduation! Get all the details at [www.captechu.edu](http://www.captechu.edu).



**CAPITOL  
TECHNOLOGY  
UNIVERSITY**

1927

**Articulation Agreement**  
**A. A. S. in Electrical Engineering at Montgomery College Community College and B.S. in Electrical Engineering at Capitol Technology University**

Students graduating from Montgomery College with an A. A. S. degree in Electrical Engineering may transfer up to 60 approved credit hours, with a minimum grade of 'C' required in each course transferred, towards the B. S. in Electrical Engineering at CAPITOL . This table specifies Montgomery College A. A. S. in Electrical Engineering course equivalencies up to 66 credits. Additional credits from 4-year institutions will be evaluated on a case-by-case basis.

COURSE NUMBER, TITLE and NUMBER of CREDITS			COURSE NUMBER, TITLE and NUMBER of CREDITS		
<b>Engineering</b>			<b>Math/Science</b>		
<b>60 Credits</b>			<b>33 Credits</b>		
Transferred course			Transferred course		
	EL 100 Introduction to DC/AC Circuits (3)	ENEE 207 (1) + ENEE 150 (2)		MA-261 Calculus I (4)	MATH 181
	EL 150 DC/AC Circuits and Analysis (3)	ENEE 207 (3)		MA-262 Calculus II (4)	MATH 182
	EL-200 Electronic Devices/Circuits (3)			MA-263 Calculus III (4)	MATH 280
	EL-204 Digital Electronics (3)	ENEE 244		MA-340 Ordinary Differential Equations (3)	MATH 282
	EL-250 Advanced Analog Circuits (3)			MA-345 Probability/Stats for Engineers (3)	
	EL-261 Intro/Commun Circuits/Systems (3)			PH-261 Engineering Physics I (4)	PHYS 161 (3) + ENEE 150 (1)
	EL-262 Microprocessors/Microassembly (3)			PH-262 Engineering Physics II (4)	PHYS 262
	CS-150 Intro/Programming Using C (3)	ENEE 140		PH-263 Engineering Physics III (4)	PHYS 263
	EE-304 Digital Design I (3)			CH-120 Chemistry (3)	CHEM 135 or CHEM 132
	EE-309 Circuit Design and Simulation (3)				
	EE-359 High Frequency Circuit Design (3)				
	EE-362 Microcontroller System Design (3)		<b>Humanities/Social Sciences</b>		
	EE-406 Signals and Systems (3)			BUS-301 Project Management (3)	<b>18 Credits</b>
	EE-409 Network Analysis and Synthesis (3)	ENEE 222		HU-331 <b>OR</b> HU-332 Arts and Ideas (3)	Note 1
	EE-453 Control I (3)			SS-351 Ethics (3)	Note 2
	EE-456 Digital Signal Processing (3)			Social Science Elective (3)	Note 3
	EE-458 Senior Project (3)			Humanities Elective (3)	Note 4
	EE-460 Electromagnetic Fields (3)			Humanities Elective (3)	Note 4
	EE-461 Communications Theory (3)				
	Engineering Elective (3)	ENES 100			
			<b>English Communications</b>		
				EN-101 English Communications I (3)	<b>9 Credits</b>
				EN-102 English Communications II (3)	Note 5
				EN-408 Writing Sem in Tech Research (3)	ENGL-102
Evaluated by:		Date:	Schools transferred in from: T <sub>1</sub> = T <sub>2</sub> =		
1.			T <sub>3</sub> = T <sub>4</sub> =		
2.			<b>Notes</b>		
3.			<b>Note 1:</b> Students may transfer ARTT-127, ARTT-200, ARTT-201, ARTT-270, ARTT-272, ARTT-275, ARTT-278, ARTT-279, ARTT-280, ARTT-278, or ARTT-280 for HU-331/332		
Student First Name:		MI:	<b>Note 2:</b> Students may transfer PHIL-140 for SS-351		
Last Name:			<b>Note 3:</b> Any BSSD		
			<b>Note 4:</b> Any ARTD or HUMD		
			<b>Note 5:</b> Students may transfer ENGL-101 or 101A if required for their MC program.		

