

STACKABLE CREDENTIAL: BIOMEDICAL ELECTRONICS TECHNOLOGY, CERTIFICATE OF PROFICIENCY

Students who elect to follow this academic plan may complete the following certificates while completing the requirements for the Engineering Technology, Associate in Applied Science:

- Skilled Trades Industrial Occupations Technology, Certificate of Specialization
- Biomedical Electronics Technology, Certificate of Proficiency

Students are encouraged to consult with an academic advisor to confirm course selection and ensure alignment with program requirements and graduation goals.

For additional information about the Biomedical Electronics Technology program, please refer to the **Biomedical Electronics Technology program's catalog page** (<https://catalog.stlcc.edu/programs/biomedical-electronics-technology-certificate-specialization/>).

Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
GE 131	Engineering Technology Orientation	1	Reading Proficiency	Exploratory Course
EE 134	Electric Circuits	6	MTH 140 (or MTH 140S) with a minimum grade of "C" or equivalent placement test scores or department approval and Reading Proficiency	Gateway Course and Critical Course
MTH 140	Intermediate Algebra	3	Satisfactory placement and Reading Proficiency	
GE 101	Technical Computer Applications	3	Reading Proficiency	
GE 135	Blueprint Reading for Engineering Technicians	2	Reading Proficiency	Apply for graduation for Skilled Trades Industrial Occupations Technology, Certificate of Specialization.
	Credit Hours	15		
Spring				
Select one of the following:		3		BIO 109 is highly recommended.
BIO 109	Human Biology (MOTR LIFS 100)		Reading Proficiency or concurrent enrollment in RDG 079	
PSI 101	Physical Science (MOTR PHYS 110)		MTH 108 or MTH 140S with a minimum grade of "C", or placement into MTH 140 or higher, and Reading Proficiency	
Select one of the following:		3		
ENG 101	College Composition I (MOTR ENGL 100)		Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079	
ENG 102	College Composition II (MOTR ENGL 200)		ENG 101 with a minimum grade of "C" and Reading Proficiency	
EE 132	Electronic Devices	5	EE 134 with a minimum grade of "C" and Reading Proficiency	
IT 101	Cisco Networking Academy I: Introduction to Networks	5	Reading Proficiency	
	Credit Hours	16		

Second Year				
Fall				
BE 153	Workplace Learning: Biomedical Electronics Technology	6	BE 254 with a minimum grade of "C" and Reading Proficiency	Students may need prerequisite override. See note at bottom.
BE 254	Biomedical Applications	5	EE 132 with a minimum grade of "C" and Reading Proficiency	Critical Course
IT 201	Cisco Networking Academy II: Switching, Routing, and Wireless Essentials	5	IT 101 with a minimum grade of "C", and Reading Proficiency	Apply for graduation for Biomedical Electronics Technology, Certificate of Proficiency.
	Credit Hours	16		
Spring				
GE 240	Product Design and Fabrication	4	ME 151 or EE 134 or EGR 100 or ME 111 with minimum grades of "C" or department approval, and Reading Proficiency	
Select one of the following:		3		
COM 101	Oral Communication I (MOTR COMM 100)		Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency	
COM 107	Public Speaking (MOTR COMM 110)		Reading Proficiency	
COM 201	Interpersonal Communication (MOTR COMM 120)		Reading Proficiency	
XXX xxx	Engineering Technology Approved Elective	3		Highly recommend: ME 140, EE 236, or EE 151.
XXX xxx	Social & Behavioral Sciences: Civics Requirement (https://catalog.stlcc.edu/general-education/)	3		
	Credit Hours	13		
	Total Credit Hours	60		

Students may elect to complete BE 153 for 4-6 credit hours to satisfy the requirements of the Biomedical Electronics Technology, Certificate of Proficiency. Students who complete BE 153 for fewer than 6 credit hours must complete an additional Engineering Technology approved elective to meet the credit hour requirements of the Engineering Technology, Associate in Applied Science.

Recommended Engineering Technology approved electives include: ME 140, EE 236, or EE 151.