

Electronic Systems Technology

Biomedical Technician Certificate for Health Program Graduates

Semester Course Outline • 2024 – 2025

11 Months (2 Semesters, 1 Summer Session) • Revised: 1/2/24

Credits Required Certificate: 40



Students taking the Biomedical Technician Certificate must have an Associate of Applied Science Degree (A.A.S.) degree from a healthcare program.

Fall Semester (August – December)

Course Number	Course Title	Clock Hours	Credits
EST 116	DC/AC Electronics	112	4
EST 121	Digital Systems A	84	3
EST 123	Digital Systems B	28	1
EST 267	Rework, Repair, and Surface Mount Soldering	56	2
RBTC 200	Mechanical Design and 3-D Modeling A	56	2
RBTC 203	Mechanical Design and 3-D Modeling B	28	1
RBTC 210	Mechanical Systems A	28	1
RBTC 212	Mechanical Systems B	28	1
Total		420	15

Spring Semester (January – May)

Course Number	Course Title	Clock Hours	Credits
BMT 200	Intro to Biomedical	45	3
BMT 205	Safety in Healthcare Facilities	15	1
EST 115	Electronic Systems	168	6
EST 219	3D Printer Build	84	3
RBTC 175	Basic Motor Controls	84	3
RBTC 205	Programmable Logic Controllers	84	3
Total		480	19

Summer Session (May – July)

Course Number	Course Title	Clock Hours	Credits
BMT 210	Biomed Internship	360	6
Total		360	6