



AAS Biomedical Equipment Technology & Robotics and Automation  
Technology to  
***Bachelor of Applied Arts & Sciences***  
**Guided Pathway**



Effective beginning with the 2022-2023 catalog

**First Year - Collin College**

FIRST SEMESTER	SECOND SEMESTER
CETT 1407 - Fundamentals of Electronics	<sup>C</sup> SPCH 1321 - Business and Professional Communication
<sup>C</sup> ENGL 1301 - Composition I	CETT 1409 - DC-AC Circuits
CETT 1425 - Digital Fundamentals	RBTC 1405 - Robotic Fundamentals
TECM 1343 - Technical Algebra and Trigonometry*	ELMT 1305 - Basic Fluid Power
14 credit hours	14 credit hours

**Second Year - Collin College**

FIRST SEMESTER	SECOND SEMESTER
INTC 1307 - Instrumentation Test Equipment	<sup>C</sup> Social / Behavioral Science (see list below)
<sup>C</sup> PHYS 1405 - Conceptual Physics or PHYS1401	<sup>C</sup> Humanities/Fine Arts (see list below)
RBTC 2345 - Robot Application, Set-up and Testing	CETT 1445 - Microprocessor
ELMT 1301 - Programmable Logic Controllers	ELMT 2339 - Advanced Programmable Logic Controllers
INTC 1357 - AC-DC Motor Control	INTC 2359 - Distributed Control Systems (Capstone)
16 credit hours	16 credit hours

***AAS Biomedical Equipment Technology and Robotics and Automation Technology***

**Third Year – Collin College (Core Completion)**

FIRST SEMESTER	SECOND SEMESTER
<sup>C</sup> Mathematics (see list below)	<sup>C</sup> Life/Physical Science (see list below)
<sup>C</sup> History (see list below)	<sup>C</sup> History (see list below)
<sup>C</sup> ENGL 1302 Composition II (or ENG 2311)	<sup>C</sup> GOVT 2306 Texas Government
<sup>C</sup> Lang, Phil, & Culture/Creative Arts (see list below)	Core Elective (see list below)
<sup>C</sup> GOVT 2305 Federal Government	
15 credit hours	13 credit hours

**Fourth Year – University of Texas at Tyler**

Students must fulfill UT Tyler admissions requirements which can be found on the UT Tyler website.

FIRST SEMESTER	SECOND SEMESTER
ECON 3302 Economic & Financial Literacy	PHIL 3344 Ethical Leadership
PSYC 3320 Interpersonal & Small Group Interaction	HRD 3306 Team Building
HRD 4301 Supervision	ALHS 3371 Health & Wellness
MANA 4385 Strategic Leadership	PSYC 3335 Diversity & Social Justice
MANA 3311 Fundamentals of Management	MANA 3315 Organizational Behavior
MANA 3320 Human Resource Management	
18 credit hours	15 credit hours

### **Collin Options:**

Humanities/Fine Arts – choose one from: **ARTS** 1301, 1303, 1304, 1313, **DANC** 2303, **DRAM** 1310, 2361, 2362, 2366, **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2341, **HIST** 2311, 2312, 2321, 2322, **HUMA** 1301, **MUSI** 1306, 1307, 1310, **PHIL** 1301, 1304, 2303, 2306, 2307, 2321.

History – choose two from: **HIST** 1301, 1302, 2301

Life & Physical Sciences – choose one from: **BIOL** 1406, 1407, 1414, 1415, 2401, 2402, 2406, 2416, 2421, 1408, 1409, 2404, 2420, **CHEM** 1411, 1412, 2423, 2425, 1405, **GEOL** 1401, **ENVR** 1401, 1402, **GEOL** 1403, 1404, **PHYS** 1401, 1402, 2425, 2426, 1402, 1445, 1447, 1403, 1404, 1405, 1410, 1415, 1417

Language, Philosophy, & Culture or Creative Arts – choose one course from Humanities/Fine Arts from the area not previously taken.

Mathematics – choose one from: **MATH** 1314, 1414, 1316, 1342, 2305, 2318, 2320, 2412, 2413, 2414, 2415. 1324, 1325, 1332, 1350, 1351

Social and Behavioral Sciences – choose one from: **ANTH** 2302, 2346, 2351, **ECON** 1301, 2301, 2302, **GOVT** 2305, 2306, **HIST** 1301, 1302, 2301, **PSYC** 2301, **SOCI** 1301, 1306.

Core Elective – choose one from: **EDUC** 1300, **KINE** 1304, 1338, OR any core course not used to meet other requirements.