



AAS Biomedical Equipment Technology and Robotics & Automation Technology to

**Bachelor of Applied Arts and Sciences**

Guided Pathway

Effective beginning with the 2022 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
	<sup>c</sup> MATH 1314 or other Core Math (see list below)
14 credit hours	17 credit hours

**Second Year - Collin College**

FIRST SEMESTER	SECOND SEMESTER
INTC 1307 Instrumentation Test Equipment	<sup>c</sup> ECON 1301 Introduction to Economics
<sup>c</sup> PHYS 1405 Conceptual Physics	<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 & Automation Technology**

**Third Year – Texas A&M University – Commerce & Collin College**

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

FIRST SEMESTER	SECOND SEMESTER
<sup>c</sup> ENG 1302 GLB/US Written Argument / Research <sup>1</sup>	<sup>c</sup> HIS 1302 US History from 1865
<sup>c</sup> HIS 1301 US History to 1877	<sup>c</sup> GOV / PSCI 2306 Texas Government & Politics
<sup>c</sup> GOV / PSCI 2305 US Government and Politics	<sup>c</sup> Social/Behavioral Science (see list below)
<sup>c</sup> Social/Behavioral Science (see list below)	<sup>c</sup> Creative Arts (see list below)
BAAS 301 - Designing your Future Work (TAMUC)	BAAS 326 - Exploring Spreadsheets (TAMUC)

**Fourth Year - Texas A&M University**

FIRST SEMESTER	SECOND SEMESTER
BAAS 303 - Professional Communications	TMGT 350 - Principles of Technology Management
BAAS 345 - Leadership Techniques	BAAS 445 - Ethical Decision Making
BAAS 408 - Problem Solving with Databases	TMGT 358 - Essentials of Project Management
BAAS 351 - Planning, Budgeting and Decision Making	Upper level Elective
BAAS 443 - Professional Standards	Upper level Elective

Part time students may also follow this sequence. Developmental coursework may be required.

All core courses show in **BOLD** in the 3<sup>rd</sup> year can be taken at Collin College

### **Collin Options:**

Mathematics/Natural Sciences – choose one from: **MATH** 1314, 1316, 1324, 1325, 1332, 1342, 1350, 1351, 2305, 2318, 2320, 2412, 2413, 2414, 2415, **BIOL** 1406, 1407, 1408, 1409, 1414, 1415, 2401, 2402, 2402, 2404, 2406, 2416, 2420, 2421, **CHEM** 1405, 1411, 1412, 2423, 2425, **ENVR** 1401, 1402, **GEOL** 1401, 1402, 1403, 1404, 1445, 1447, **PHYS** 1401, 1402, 1403, 1404, 1405, 1410, 1415, 1417, 2425, 2426.

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.

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.

Speech – choose one from: **SPCH** 1311, 1315, 1321.