

ENGINEERING TECHNOLOGIES B.T.**Bachelor of Technology****Automation Concentration****Degree Sheet**

2026-2027 Catalog

General Education Courses			40 Credit Hours	Credit Hours	Prerequisites
ENGL	1113	English Composition I		3	[R] [W]
ENGL	1213	English Composition II		3	ENGL 1113
<i>Select One:</i> SPCH 1113 Introduction to Speech Communication				3	[R] [W]
SPCH 2723 Interpersonal Communication (S)					
<i>Select One:</i> HIST 1483 U.S. History to 1865 (S)				3	[R] [W]
HIST 1493 U.S. History since 1865 (S)					
POLS	1113	American Government (S)		3	[R] [W]
PSYC	1113	Introductory Psychology (S)		3	[R] [W]
<i>Select One:</i> PHIL 1213 Introduction to Ethics (H)				3	[R] [W]
PHIL 1313 Critical Thinking (H)					
SOC	3623	Cultural Diversity (HS)		3	Junior Standing
<i>Select any 3 credit hours of college-level science courses</i>					
				3	Varies
PHYS	1114	General Physics I (LN)		4	[R], MATH 1483 or MATH 1513
MATH	1513	Precalculus I (A)		3	[M]
STAT	2013	Elementary Statistics (A)		3	[M]
MATH	2103	Business Calculus (A)		3	MATH 1483
Support and Related Courses			6 Credit Hours		
CIS	1123	Programming Fundamentals		3	[R]
MGMT	2143	Organizational Leadership		3	[R] [W]
Technical Occupational Specialty			35 Credit Hours		
ENGT	1001	Introduction to Industry		1	[R] [W]
ENGT	1103	Introduction to Manufacturing Processes and Materials		3	[R] [W] [M]
ENGT	1104	Fundamentals of Electricity		4	Coreq: MATH 1513
ENGT	1203	Introduction to Additive Manufacturing		3	None
ENGT	1234	Analog and Digital Systems		4	ENGT 1104 or EET 1102
ENGT	2303	Quality Methods in Engineering		3	ENGT 1103, MATH 1513
ENGT	2313	Hydraulics and Mechanical Systems		3	None
ENGT	2322	Process Management		2	ENGT 1103
ENGT	2333	Programmable Logic Controllers		3	CIS 1123
ENGT	2403	Internship		3	Sophomore Status
<i>Select 6 credit hours of approved electives</i>					
ENGT	2443	Engineering Instrumentation		3	ENGT 2303
ITD	2453	Industrial Data Communications		3	[R]
ENGT	2473	Advanced Quality Methods		3	ENGT 2303, MATH 1513
ENGT	2483	Manufacturing Techniques		3	ENGT 1103, ENGT 1203
<i>Selective Admission into the following courses is required based on certain criteria.</i>					
Required Upper Division Courses			40 Credit Hours		
GENT	1313	Introduction to Occupational Safety		3	None
ENGT	3603	Additive Manufacturing		3	ENGT 1203
ENGT	3904	Industry Internship		4	Junior Standing
ENGT	4703	Industrial Simulations and Modeling		3	ENGT 2303
ENGT	4803	Lean Manufacturing and Six Sigma		3	ENGT 2322, STAT 2013
ENGT	4812	Facilities Planning and Material Handling		2	ENGT 4703
ENGT	4833	Industrial Economics and Cost Analysis		3	MATH 2103, STAT 2013
ENGT	4904	Capstone Design Project		4	Senior Standing
<i>Required Upper Division Courses - Automation Concentration</i>					
ENGT	3543	Advanced Programmable Logic Controllers		3	ENGT 2333
ENGT	3644	Industrial Robotics		4	ENGT 3543
ENGT	4744	Industrial Automation		4	ENGT 3543
ENGT	3574	Manufacturing Operations I		4	ENGT 1103, Pre/Coreq: MATH 2103

Total to Graduate 121**ADDITIONAL GRADUATION REQUIREMENTS:**

- 2.0 Graduation/Retention GPA
- 30 credit hours earned in residence at OSU-OKC
- 60 credit hours from baccalaureate degree granting institution
- 40 credit hours of upper division coursework
- Grade of "C" or better required in all upper division coursework

NOTES LEGEND:

- ◆ Embedded certificate: Manufacturing Technician II (QC)
 - [R] Reading Proficiency/Placement
 - [W] Writing Proficiency/Placement
 - [M] Math Proficiency/Placement
- Learn more about proficiency requirements at <https://osuokc.edu/proficiency>.