



# MANUFACTURING TECHNOLOGY CAREER PATHWAY MAP

✓	RECOMMENDED COURSE SEQUENCE	SEMESTERS OFFERED	CREDIT HOURS
<input type="checkbox"/>	1. MCHN 1300 Beginning Machine Shop	F	3
<input type="checkbox"/>	2. ENTC 1347 Safety and Ergonomics	F	3
<input type="checkbox"/>	3. DFTG 1325 Blueprint Reading and Sketching	F	3
<input type="checkbox"/>	4. ELPT 1311 Basic Electrical Theory	F	3
<input type="checkbox"/>	5. ENGL 1301 <i>Composition I</i>	F, Sp, Su	3
			<i>15 hours</i>
<input type="checkbox"/>	6. MCHN 1343 Machine Shop Mathematics	Sp	3
<input type="checkbox"/>	7. MCHN 1320 Precision Tools and Measurement	Sp	3
<input type="checkbox"/>	8. Group 1 Elective	Sp	3
<input type="checkbox"/>	9. HYDR 1345 Hydraulics and Pneumatics	Sp	3
<input type="checkbox"/>	10. SPCH 1315 <i>Public Speaking*</i>	F, Sp, Su	3
			<i>15 hours</i>
<input type="checkbox"/>	11. Electives - 2 from Group 2	F	6
<input type="checkbox"/>	12. PHYS 1405 Elementary Physics I	F	4
<input type="checkbox"/>	13. SOCI 1301 <i>Introduction to Psychology*</i>	F, Sp, Su	3
<input type="checkbox"/>	14. PHIL 1301 <i>Introduction to Philosophy*</i>	F, Sp, Su	3
			<i>16 hours</i>
<input type="checkbox"/>	15. INMT 2488 Internship	Sp	4
<input type="checkbox"/>	16. Electives – 2 Additional from Group 1 or 2	Sp	6
<input type="checkbox"/>	17. MFGT 1404 Automated Manufacturing	Sp	4
			<i>14 hours</i>
	<b>*** ASSOCIATE OF APPLIED SCIENCE DEGREE EARNED ***</b> NOTE: Check with the Office of Financial Aid as aid may not be available beyond degree completion and/or 60 hours.		<i>60 hours</i>

## READ ALL NOTES CAREFULLY:

- \* Refer to Core Curriculum and KC Catalog for all possible course options.
- a) Courses in **bold** have a pre-requisite (previous course required).
- b) Courses in *italics* can be taken in any order.
- c) ENGL 1301 and the first MATH class may require a co-requisite and/or developmental course depending on TSI Scores.
- d) Refer to KC Catalog for Certificate and AAS Degree Requirements.

## ELECTIVES:

Group 1 - MCHN 1338, INTC 1353, PFPB 1308

Group 2 – MCHN 2303, MCHN 2334, INMT 2303, ELPT 2319, INCR 1302

## CAREER OPPORTUNITIES

The program prepares students for careers in Manufacturing with a focus on mechanical, electrical, machining and automation.

## ADVANCED DEGREE/CREDENTIAL OPPORTUNITIES

The University of Texas at Tyler, Bachelor of Science (BS) In Industrial Technology

## LINKS TO COLLEGES AND PROFESSIONAL ORGANIZATIONS:

The University of Texas at Tyler <https://www.uttyler.edu>

## CONTACT INFORMATION

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## Manufacturing Certificate – Machining

✓	RECOMMENDED COURSE SEQUENCE	SEMESTERS OFFERED	CREDIT HOURS
<input type="checkbox"/>	1. ENTC 1347 Safety and Ergonomics	F	3
<input type="checkbox"/>	2. DFTG 1325 Blueprint Reading and Sketching	F	3
<input type="checkbox"/>	3. MCHN 1343 Machine Shop Mathematics	F	3
<input type="checkbox"/>	4. MCHN 1320 Precision Tools and Measurement	F	3
			<i>12 hours</i>
<input type="checkbox"/>	5. MCHN 1338 Basic Machine Shop I	Sp	3
<input type="checkbox"/>	6. MCHN 2334 Operation of CNC Machining Centers	Sp	3
			<i>6 hours</i>
	<b>*** MANUFACTURING CERTIFICATE – MACHINING EARNED ***</b>		<b>18 hours</b>
	NOTE: Check with the Office of Financial Aid to verify assistance with this certificate.		

## Manufacturing Certificate – Mechanical / Electrical

✓	RECOMMENDED COURSE SEQUENCE	SEMESTERS OFFERED	CREDIT HOURS
<input type="checkbox"/>	1. ENTC 1347 Safety and Ergonomics	F	3
<input type="checkbox"/>	2. DFTG 1325 Blueprint Reading and Sketching	F	3
<input type="checkbox"/>	3. ELPT 1311 Basic Electrical Theory	F	3
	4. Certificate-Approved Elective *	F	3
			<i>12 hours</i>
<input type="checkbox"/>	5. Certificate-Approved Elective (not previously taken) *	Sp	3
<input type="checkbox"/>	6. Certificate-Approved Elective (not previously taken) *	Sp	3
			<i>6 hours</i>
	<b>*** MANUFACTURING CERTIFICATE – MECHANICAL / ELECTRICAL EARNED ***</b>		<b>18 hours</b>
	NOTE: Check with the Office of Financial Aid to verify assistance with this certificate.		

### \* Certificate-Approved Electives:

INTC 1353, PFPB 1308, HYDR 1345, INMT 2303, ELPT 2319, INCR 1302

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