

# ENGINEERING TECHNOLOGY, A.A.S

The **Associate of Applied Science in Engineering Technology** provides students with applied, industry-focused training that prepares them for today's technical careers. Unlike traditional engineering programs, this curriculum centers on real-world design, manufacturing, and technology applications using current industry practices, with less emphasis on advanced theoretical math. From the first semester, students engage in hands-on coursework in lab and shop environments, gaining practical experience in machining, electronics, CAD, and problem solving.

Students can also continue their education through WVU Parkersburg's seamless 2+2 transfer pathway with West Virginia University. After earning their associate degree, graduates can transfer to Morgantown to complete a Bachelor of Science in Engineering Technology.

## Milestone Course

These courses are the keys to graduation and certification. Courses should be taken in the recommended semesters.

## Career Planning

- Engineering Technician
- CAD Drafter
- Quality Control Inspector
- Field Service Technician

## Capstone Course

The capstone is a semester long project that must be taken in the graduation semester. A "C" or better must be earned.

Students should average 15 credit hours per semester, or 30 per year, to graduate on time.

### Total Degree Credits: 60

Course	Title	Hours
<b>Semester 1</b>		
COLL 101	ORIENTATION TO COLLEGE <sup>1</sup>	0
ENGR 191	FIRST YEAR SEMINAR	1
ETEC 130	MANUFACTURING PROCESSES 1	3
ETEC 199	INTRO ENGINEERING TECHNOLOGY	1
Quantitative Reasoning ( <a href="https://wvup-public.courseleaf.com/programs-study/general-education-mission/#qr">https://wvup-public.courseleaf.com/programs-study/general-education-mission/#qr</a> ) Elective: (MATH 150 is preferred)		3
Scientific Inquiry ( <a href="https://wvup-public.courseleaf.com/programs-study/general-education-mission/#si">https://wvup-public.courseleaf.com/programs-study/general-education-mission/#si</a> ) Elective: (PHYS 101 is preferred)		4
Writing and Rhetoric ( <a href="https://wvup-public.courseleaf.com/programs-study/general-education-mission/#wr">https://wvup-public.courseleaf.com/programs-study/general-education-mission/#wr</a> ) Elective: (ENGL 101 is preferred)		3
<b>Hours</b>		<b>15</b>
<b>Semester 2</b>		
BTEC 275	ADVANCED BUSINESS APPLICATIONS	3
ETEC 210	ENGR GRAPHICS & DESCR GEOMETRY	2
ETEC 210L	ENGR GRAPH & DESCR GEOM LAB	1
MATH 153	INTRODUCTION TO CALCULUS II	3
PHYS 102	~INTRO TO PHYSICS 2	4
Select one of the following:		3
Aesthetics, Creativity, and Appreciation ( <a href="https://wvup-public.courseleaf.com/programs-study/general-education-mission/#aca">https://wvup-public.courseleaf.com/programs-study/general-education-mission/#aca</a> )		
Human Communication and Interaction ( <a href="https://wvup-public.courseleaf.com/programs-study/general-education-mission/#hci">https://wvup-public.courseleaf.com/programs-study/general-education-mission/#hci</a> )		
<b>Hours</b>		<b>16</b>
<b>Semester 3</b>		
CHEM 111	~INTRO TO GENERAL CHEMISTRY	4
MATH 211	~STATISTICS	3
ENGR 101	ENGINEERING PROBLEM SOLVING 1	2
Select one of the following:		3
People and Their Worlds ( <a href="https://wvup-public.courseleaf.com/programs-study/general-education-mission/#ptw">https://wvup-public.courseleaf.com/programs-study/general-education-mission/#ptw</a> )		
ENGR 140		
ETEC 220		2
ETEC 220L		1
<b>Hours</b>		<b>15</b>
<b>Semester 4</b>		
ENGR 102	ENGINEERING PROBLEM SOLVING 2	3
ENGL 102	~COMPOSITION 2	3
ETEC 340		3

ETEC 340L		1
ETEC 260		1
Energy or Mechanical Engineering Area of Emphasis Courses		4
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>61</b>
<b>Code</b>	<b>Title</b>	<b>Hours</b>
Core Courses		
COLL 101	ORIENTATION TO COLLEGE	0
MATH 211	~STATISTICS	3
ENGL 101	~COMPOSITION 1	3
PHYS 101 & 101L	~INTRO TO PHYSICS 1 and INTRO PHYSICS 1 LAB	4
COMM 112 or COMM 105	SMALL GROUP COMMUNICATION INTRODUCTION TO MASS MEDIA	3
ENGR 140	Engineering in History	3
Program Courses		
ENGR 191	FIRST YEAR SEMINAR	1
ENGR 101	ENGINEERING PROBLEM SOLVING 1	2
ENGR 102	ENGINEERING PROBLEM SOLVING 2	3
ETEC 130 & 130L	MANUFACTURING PROCESSES 1 and MANUFACTURING PROCESSES 1 LAB	3
ETEC 199 INTRODUCTION TO ENGR TECHNOLOGY	Course ETEC 199 INTRODUCTION TO ENGR TECHNOLOGY Not Found	1
ETEC 210 & 210L	Engineering Graphics and Descriptive Geometry and Engineering Graphics and Descriptive Geometry Laboratory	3
ETEC 220-1 & ETEC 220L	Course ETEC 220-1 Not Found and Applications of Technology Lab	3
ETEC 340 & 340L	Electronic Circuits and Electronic Circuits Lab	4
ETEC 260	Engineering Technology Capstone	1
MATH 150	INTRODUCTION TO CALCULUS	3
MATH 153	Introduction to Calculus II	3
BCOR 121	Introduction to Business Applications	2
PHYS 102 & 102L	~INTRO TO PHYSICS 2 and INTRO TO PHYSICS 2 LAB	4
CHEM 111 & 111L	~INTRO TO GENERAL CHEMISTRY and INTRO TO GEN CHEM LAB	4
ENGL 102	~COMPOSITION 2	3
MAE 211 & 211L	Mechatronics and Mechatronics Lab	3
DRAF 280	Course DRAF 280 Not Found	3
<b>Total Hours</b>		<b>62</b>