

## Mechanical Engineering Technology

### Transfer Single Articulation Pathway (TSAP)

Students transferring a completed Associate Degree from a Transfer Single Articulation Pathway (TSAP) institution and program must complete the following IPFW courses for a Bachelor's Degree.

	<b>Course Number</b>	<b>IPFW Course</b>	<b>Hours</b>
PHYS	21900*	General Physics II	4
ET	20000*	Strength of Materials	3
IET	20500*	Statistics for ET (or STAT 301)	3
ECET	11400*	Intro. Visual Basic (or ITC 130)	3
ECET	21100	Electrical Machines & Controls	3
MET	21600	Machine Elements	4
ENG	W234*	Technical Report Writing	3
MET	31200	Dynamics & Mechanisms	3
MET	33500*	Basic Machining	3
MET	24700, 34700, or 44000	MET Technical Selective	3
MET	30000	Applied Thermodynamics	3
MET	35000	Applied Fluid Mechanics	3
MET	370000	Intro. to Heat Transfer	3
MET	38100	Engineering Materials	3
IET	35000	Engineering Economy	3
ENG	W421	Tech. Writing Projects	3
—	—	Computer Prog. Elective**	3
IET	20400	Tech. Maintaining Quality	3

\* A grade of C- or better is required before taking the next course in the prerequisite sequence.

\*\*Recommended Computer Programming Electives are listed below.

**Course Title & Prerequisites**

CPET 190 Problem Solving with MATLAB [*MA 153; ECET 114 or CS 114*]

ECET 264 C Programming [*MA 154; ECET 190 (waived for MET students)*]

ECET 361 Intro. PLC (OK for either Computer or Tech. elective) [*ECET 204 or ECET 207 (waived for MET students)*]

CS 203 Advanced Visual Basic [*ECET 114 or CS 114*]

CS 160 Intro. Computer Science I (4 credits & significantly more work than the other options) [*MA 153*]