

HEAVY EQUIPMENT TECHNICIAN - INTERMEDIATE TECHNICAL CERTIFICATE (ITC)

Explore More About This Program: <https://cwi.edu/program/heavy-equipment-technician>

Certificate Plan: Summer Start

The course sequence listed below is strongly recommended in order to complete your program requirements. Many Career and Technical Education (CTE) courses have prerequisites and/or corequisites that have been accounted for within this course sequence plan. Please register for each semester as shown using the Student Planning tool in myCWI. Consult your advisor for any questions regarding this course sequence plan.

NOTE

Prior to beginning their HTEC courses, students must successfully complete any one (1) general education course.

First Year

Summer

Full 8-Week Course Session		Credit Hours
Select one of the following:		3
COMM 101	Fundamentals of Oral Communication (Recommended GEM 2) ¹	
CWI 101	Connecting With Ideas (Recommended GE Elective) ¹	
ENGL 101	Writing and Rhetoric I (Recommended GEM 1) ¹	
MATH 118 & 118L	Technical Math and Technical Math Lab (Recommended GEM 3) ¹	
PSYC 140	Human Relations for Career and Personal Success (Recommended GEM 6) ¹	
Total Semester Credit Hours		3

Fall

First 4-Week Course Session		Credit Hours
HTEC 111	Introduction to Heavy Equipment Service Industry	3
Second 4-Week Course Session		Credit Hours
HTEC 121	DC Circuits & Basic Electrical Systems	3
Third 4-Week Course Session		Credit Hours
HTEC 131	Track Systems and Mechanical Repair	3
Fourth 4-Week Course Session		Credit Hours
HTEC 141	Diesel Engine Theory of Operation and Repair	3
Total Semester Credit Hours		12

Spring

First 4-Week Course Session		Credit Hours
HTEC 151	Preventive Maintenance	3
Second 4-Week Course Session		Credit Hours
HTEC 161	HVAC System Service	3
Third 4-Week Course Session		Credit Hours
HTEC 171	Fundamentals of Fluid Power	3
Fourth 4-Week Course Session		Credit Hours
HTEC 181	Principles of Electronically Managed Systems	3
Total Semester Credit Hours		12

Second Year

Summer

First 4-Week Course Session		Credit Hours
HTEC 211	Gearing and Driveline Systems	3

Second 4-Week Course Session		
HTEC 221	Mobile Equipment Hydraulic Systems	3
Total Semester Credit Hours		6
Fall		
First 4-Week Course Session		
HTEC 231	Transmissions	3
Second 4-Week Course Session		
HTEC 241	On-Board Vehicle Networks and Electronic Systems Troubleshooting	3
Third 4-Week Course Session		
HTEC 251	Engine Emissions and Fuel Systems	3
Fourth 4-Week Course Session		
HTEC 261	Hydraulic System Service and Repair	3
Total Semester Credit Hours		12
Minimum Credit Hours Required		45

¹ The general education (GE) courses listed above are recommended by the department as the most beneficial GE options for students in this program. **Please note that students may fulfill their GE requirement by completing another course from within one of the designated general education categories.**