

HEAVY EQUIPMENT TECHNICIAN - ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

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

Degree 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

Heavy Equipment Technician (HTEC) majors are required to complete five general education courses in order to receive an Associate of Applied Science degree. Prior to beginning their HTEC courses, students must successfully complete any one (1) general education course. While it is recommended that students complete all five of their required general education courses during the spring and/or summer semester(s) prior to beginning the program, students may complete the additional required GEM courses during regular semesters while enrolled in HTEC courses if they feel capable of doing so.

First Year

| | | Credit Hours |
|-------------------------------------|--|--------------|
| Summer | | |
| Full 8-Week Course Session | | |
| CWI 101 | Connecting With Ideas (Recommended GE Elective) ¹ | 3 |
| PSYC 140 | Human Relations for Career and Personal Success (Recommended GEM 6) ¹ | 3 |
| Total Semester Credit Hours | | 6 |
| Fall | | |
| First 4-Week Course Session | | |
| HTEC 111 | Introduction to Heavy Equipment Service Industry | 3 |
| Second 4-Week Course Session | | |
| HTEC 121 | DC Circuits & Basic Electrical Systems | 3 |
| Third 4-Week Course Session | | |
| HTEC 131 | Track Systems and Mechanical Repair | 3 |
| Fourth 4-Week Course Session | | |
| HTEC 141 | Diesel Engine Theory of Operation and Repair | 3 |
| Full 16-Week Course Session | | |
| ENGL 101 | Writing and Rhetoric I (Recommended GEM 1) ¹ | 3 |
| Total Semester Credit Hours | | 15 |
| Spring | | |
| First 4-Week Course Session | | |
| HTEC 151 | Preventive Maintenance | 3 |
| Second 4-Week Course Session | | |
| HTEC 161 | HVAC System Service | 3 |
| Third 4-Week Course Session | | |
| HTEC 171 | Fundamentals of Fluid Power | 3 |
| Fourth 4-Week Course Session | | |
| HTEC 181 | Principles of Electronically Managed Systems | 3 |
| Full 16-Week Course Session | | |

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|--------------------------------------|---|-----------|
| MATH 118 & 118L | Technical Math and Technical Math Lab (Recommended GEM 3) ¹ | 3 |
| Total Semester Credit Hours | | 15 |
| Second Year | | |
| Summer | | |
| First 4-Week Course Session | | |
| HTEC 211 | Gearing and Driveline Systems | 3 |
| Second 4-Week Course Session | | |
| HTEC 221 | Mobile Equipment Hydraulic Systems | 3 |
| Full 8-Week Course Session | | |
| COMM 101 | Fundamentals of Oral Communication (Recommended GEM 2) ¹ | 3 |
| Total Semester Credit Hours | | 9 |
| 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 |
| Full 16-Week Course Session | | |
| HTEC 271 | Industry Practicum | 3 |
| Total Semester Credit Hours | | 15 |
| Minimum Credit Hours Required | | 60 |

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 requirements by completing another course from within the applicable general education category.**