

Career & College Promise – Career Technical Education Pathways – Mechanical Engineering Technology Diploma (D40320P)

Blue Ridge Community College offers a number of Career Technical Education Pathways (CTE) as part of Career and College Promise. CTE Pathways allow high school students to earn tuition-free courses geared toward job credentials or to get a jump start on one-year or two-year program offered at Blue Ridge. While most CTE courses do not transfer, a few of them will transfer to four-year schools with a “C” or higher grade and currently count as “Honors” high school credit. Beginning with the Class of 2019, transferable classes at Blue Ridge will be weighted the same as high school “AP” classes.

Career and College Promise students may enroll in one College Transfer Pathway and one CTE pathway or no more than two CTE pathways. Students may register only for the classes listed within their pathway. No course substitutions are allowed. Changing from one pathway to another is permitted with prior written approval from the high school Principal/Home School Administrator and the College. Students must submit a new application indicating the change.

Instructions for students: Below is the list of the classes for your pathway. The Blue Ridge course schedule is online at www.blueridge.edu Click “Academics” from the top menu, then “Course Schedule” from the blue menu on the right.

Compare the courses below with those on the schedule. Because classes are offered at various times, each course has a unique “Section Number.” The Section Number lets the Blue Ridge Advisor know whether you want a morning, afternoon, evening, or online class. To register for class, either complete and return this form or send an email to the Advisor listing the course(s) you would like to take. Please remember to include the Section Number. Without the section number you may be placed in a class that does not work with your schedule. **Tuition is free; however, students are responsible for fees, supplies, and textbooks.**

General Education Requirements

- ENG 111 Writing and Inquiry (3 SHC)
- MAT 121 Algebra/Trigonometry I (3SHC)

Major Requirements

- DFT 154 Intro to Solid Modeling (3 SHC)
- DFT 170 Engineering Graphics (3 SHC)
- MEC 145 Mfg Materials I (3 SHC)
- PHY 131 Physics – Mechanics (4 SHC)

Other Major Requirements

- EGR 125 Appl Software for Tech (2 SHC)
- EGR 130 Engineering Cost Control (3 SHC)
- EGR 150 Introduction to Engineering (2 SHC)
- ELC 128 Intro to PLC (3 SHC)
- ELC 131 Circuit Analysis I (4 SHC)
- ISC 112 Industrial Safety (2 SHC)
- MAT 122 Algebra/Trigonometry II (3 SHC)

Other Requirements

- ACA 115 Success and Study Skills (1 SHC)

Total Semester Credit Hours in Program 39

**Career & College Promise – Career Technical Education Pathways – Mechanical Engineering
Technology – Basic Certificate (C40320P)**

General Education Requirements

- MAT 121 Algebra/Trigonometry I (3SHC)

Major Requirements

- DFT 170 Engineering Graphics (3 SHC)
- EGR 250 Statics/Strength of Materials (5 SHC)
- PHY 131 Physics – Mechanics (4 SHC)

Other Major Requirements

- EGR 150 Introduction to Engineering (2 SHC)

Total Semester Credit Hours in Program 17