

NorthWest Arkansas Community College

Technical Certificate for Bike Assembly and Repair Technician 2021

Student Name:

Student ID #:

39-40 Hours

Program Mission Statement: The principle mission of the NWACC Bicycle Assembly and Repair Technician Certificate is to prepare students for immediate employment in technical positions in the bicycle industry, including preparing students with the skills needed to meet challenges, think critically, solve problems, and position themselves for future success. The TC in Bicycle Assembly and Repair stacks completely into the Associate of Applied Science in General Technology.

Program Learning Outcomes: Curriculum developed from [Accredited Barnett Manual](#) - Barnett Bicycle Institute

At the end of this program, students will be able to:

- Assemble and repair all types of bicycles currently in use.
- Apply foundational skills and knowledge to continuing professional development in response to changes in bicycle technology.
- Apply knowledge of systems and measures to find solutions to novel repair situations.
- Student is able to provide solutions that balance business, customer, and professional goals.
- Demonstrate ethical conduct in all job and personal cycling activities that maintains an image appropriate for the profession.

General Education (6-7 Hours)

ENGL 1013 English Composition I
MATH 1003 Survey of Technical Math OR
higher level math

Required BIKE Courses (27 Hours)

BIKE 1003 Introduction to Bicycle Mechanics
BIKE 1013 Basic Bicycle Mechanics
BIKE 1023 Bicycle Braking Systems
BIKE 1033 Bicycle Drivetrain Systems
BIKE 1043 Ball Bearing Systems
BIKE 2013 Bicycle Wheel Repair and Assembly
BIKE 2023 Suspension Systems
BIKE 2033 Electric Bikes
BIKE 2043 Service Department Operation

Technical Support Courses (6 Hours)

COMM 1303 Public Speaking
BADM 2513 Business Organization and Management

>>>Check the college catalog for possible prerequisites before enrolling in classes>>>

POSSIBLE PLACEMENT REQUIREMENTS

These courses are for developing college level skills.

NWACC strongly recommends that students enroll in English and math preparatory courses within the first two semesters.

- MATH 0012 Foundations of Quantitative Literacy
- MATH 0013 Pre-algebra
- MATH 0023 Developmental Math
- MATH 0053 Beginning Algebra
- MATH 0063 Algebra I
- MATH 0073 Algebra II
- MATH 0103 Intermediate Algebra
- MATH 0214 Foundations of Algebra-STEM
- ENGA 0033 College Reading**
- ENGA 0063 Intermediate Writing
- ENGA 0091 Academic Literacy Lab**
- ENGC 0033 College Reading & Vocabulary**
- ENGC 0043 Communication & Culture
- ENGC 0131 Comp Review

These hours will not fulfill any degree requirements at NWACC.
These courses will not transfer to a four year institution