

NorthWest Arkansas Community College

Technical Certificate for Bike Assembly and Repair Technician 2023 Degree Plan

Student Name:

Student ID #:

33 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 (3 Hours)

ENGL 1013 English Composition I
OR
COMM 1303 Public Speaking

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 (3 Hours)

BADM 2513 Business Organization and Management
OR
MATH 1003 Survey of Technical Math OR higher-level math

>>>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 Reasoning
MATH 0013 Pre-algebra
Math 0022 Foundations of Beginning Algebra
MATH 0053 Beginning Algebra
MATH 0103 Intermediate Algebra
MATH 0112 Foundations of College Algebra
MATH 0214 Foundations of Algebra-STEM
ENGA 0033 College Reading**
ENGA 0063 Intermediate Writing
ENGA 0093 Reading and Writing Studio
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