

**BAKER COLLEGE**  
**Waiver Form - Office Copy**  
**Advanced Manufacturing Technology**  
**Associate of Applied Science Degree**

**Acknowledgment Form - Open Enrollment Programs**

***Essential Functions and Technical Requirements***

The essential functions required by the curriculum are in the following areas: motor, sensory, communication, and intellectual (conceptual, integrative, quantitative abilities for problem solving, and the behavioral and social aspects that impact the performance). \* Technical requirements, as distinguished from academic standards, refer to those physical, cognitive, and behavioral abilities required for satisfactory completion of all aspects of the curriculum and the development of professional attributes required by the faculty of all students at graduation. These essential functions and technical requirements are referred to as the "Essential Functions."

These Essential Functions are not conditions of admission to the College or the program. The Essential Functions provide information regarding continued eligibility in this program. A student may be qualified for and admitted to the program, but later be redirected due to a failure to develop and exhibit the Essential Functions. Persons interested in applying for admission to the program should review this information to develop a better understanding of the physical abilities and behavioral characteristics necessary to successfully complete the program.

By initialing each line below, I acknowledge and understand I am expected to possess the following Essential Functions:

- \_\_\_\_\_ Cognitive abilities necessary to master relevant content in courses at a level deemed appropriate by the College. These skills may be described as the ability to comprehend, memorize, analyze, and synthesize material in a timely manner. The student must maintain the minimum grade point average (GPA) determined by each program in order to continue with coursework to complete a chosen degree. Students must have a cumulative GPA of at least 2.0 to graduate from any program; however, please note that some programs require a higher GPA in order to continue with coursework.
- \_\_\_\_\_ Ability to assess all information. The student must be capable of responsive and empathetic listening to establish rapport in a way that promotes openness on issues of concern and sensitivity to potential cultural differences.
- \_\_\_\_\_ Emotional stability to function effectively under stress and to adapt to an environment, which may change rapidly without warning, and/or in unpredictable ways.
- \_\_\_\_\_ Ability to understand the basis and content of ethical practice and possess attributes which include compassion, empathy, altruism, integrity, responsibility, and tolerance.
- \_\_\_\_\_ Ability to master information presented in coursework in the form of lectures, written material, and projected images, and the ability to seek and synthesize information from appropriate and varied sources.
- \_\_\_\_\_ Ability to recognize one's own limits, both personally and professionally, as related to one's skill and knowledge.
- \_\_\_\_\_ Ability to effectively communicate in English, both verbally and in writing, using accurate and appropriate terminology with classmates, faculty, and individuals of all ages, races, genders, and socioeconomic, and cultural backgrounds.

- \_\_\_ Ability to use computers and related technology.
- \_\_\_ Ability to prioritize, organize, and utilize time management skills.
- \_\_\_ Ability to identify, recognize, maintain, and disseminate accurate information.
- \_\_\_ Ability to correctly interpret, and/or clarify, verbal and written communications.
- \_\_\_ Ability to conduct oneself in a professional manner.
- \_\_\_ Ability to think critically and demonstrate problem-solving skills.
- \_\_\_ Ability to fulfill requirements of productivity and varying workloads.
- \_\_\_ Ability to demonstrate appropriate professional and procedural judgment decisions.
- \_\_\_ Ability to adhere to professional standards and Baker College professional conduct guidelines, policies, and procedures.
- \_\_\_ I have reviewed and acknowledge that I am expected to possess the program-specific Essential Functions located on the Program Information document.

The faculty content expert, program official, clinical coordinator, or employment supervisor is qualified and competent to assess the student's ability to perform the Essential Functions.

\*The College complies with the requirements and spirit of Section 504 of the Rehabilitation Act of 1973 as amended, and the Americans with Disabilities Act of 1990 (ADA), as amended by the Americans with Disabilities Act Amendments Act of 2008 (ADAAA). Therefore, the College will endeavor to make reasonable accommodations for participants with disabilities who are otherwise qualified.

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Student Name (Print)

Student UIN

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Student Signature

Date

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Baker College Representative Signature

Date

Printed: 2015/01/08

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Student Name (Print)

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Student UIN

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Student Signature

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Date

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Baker College Representative Signature

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Date

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BAKER COLLEGE  
Program Information

**Advanced Manufacturing Technology**

Associate of Applied Science Degree

***Campuses: Cadillac, Flint, Jackson.***

**Program Description**

Manufacturing in America relies increasingly on advanced design software and programming skills that were unknown to past generations of machinists. In the first year of this two-part degree program, students gain the essential Computer Numerical Control (CNC) knowledge and experience needed to operate today's technologically advanced manufacturing lathes, turning centers, mills, routers, and other machines. The second year of this program provides advanced software training in Mastercam, AutoCAD, and SolidWorks, preparing students to design new products and write the CNC programs to manufacture them. Graduates of this well-rounded program can anticipate many opportunities in 21st century manufacturing careers.

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