

BAKER COLLEGE
Waiver Form - Office Copy
Architectural/Construction 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.

Student Name (Print)

Student UIN

Student Signature

Date

Baker College Representative Signature

Date

Printed: 2015/01/08

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Student UIN

Student Signature

Date

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Date

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BAKER COLLEGE
Program Information

Architectural/Construction Technology

Associate of Applied Science Degree

Campuses: *Allen Park, Auburn Hills, Cadillac.*

Program Description

This program teaches computer-aided drafting (CAD), architectural drafting, cost estimating, and building construction methods and materials. Included are residential and commercial building concepts with mechanical and electrical components. Externships provide students with practical experience in areas such as construction cost estimating, material sales, construction drawings, and construction projects.

Students will gain the hands-on ability to create architectural drawings and obtain knowledge of the building construction industry. Graduates may find positions in architectural drawing, materials estimating and sales, building inspection, construction supervision, and other building industry fields.

Goals

Program Outcomes:

The graduate will:

1. employ concepts of architectural theory and precedents, with fundamental drafting, design and construction knowledge.
2. utilize modern methods, techniques and instruments to produce technical documents and architectural presentations.
3. creatively apply current knowledge and adapt to emerging applications of engineering, technology, science and mathematics to identify, analyze and solve structural and technical problems.
4. interpret architectural data and design thinking, and demonstrate effective professional communications through written, verbal and visual presentation.
5. apply mathematical computations and scientific reasoning to develop fundamental architectural, structural and environmental solutions for a building design.
6. apply the financial principles and fundamentals of building economics to estimate labor, equipment and material costs.
7. coordinate building codes & accessibility requirements with contract documents and specifications in architectural design, construction and field applications.
8. incorporate proper professional, ethical, legal, social, and environmental (i.e. sustainable) standards in the formation of decisions in architectural design.
9. identify and assume divergent roles that maximize individual talents and collaboration with others when working as members of a team.
10. recognize the need for and ability to engage in lifelong learning.

Essential Functions/Technical Requirements

The Essential Functions/Technical Requirements specific to this program include:

- * the ability to apply principles of mathematics and physics to analyze and solve architectural problems.
- * the ability to design and /or draw and analyze architectural plans and drawings, identifying any possible risks or problems and making changes/amendments using computer-aided design and /or manual applications.
- * the ability to work on your own initiative and as part of the team.
- * the ability to be creative, original, imaginative and visionary with an eye for details in art and design to complement technical know-how.
- * the ability to work with your hands and be willing to work indoors and outdoors adhering to construction safety standards.
- * the ability to communicate effectively with the architect, design professional and/or other construction professionals orally, graphically and in written format.
- * the ability to work well under time and budget pressures and uphold project deadlines.
- * the ability to identify appropriate materials, processes and environmental impacts for a project as related to the function of the building.
- * the ability to apply strong leadership and organizational skills.
- * the ability to maintain a life-long learning habit in the profession in order to provide services in accordance with the current industry standards.

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