

Initial Endorsement Content Preparation Review Technology Education

Note: The following area preparation review is for application to a UAA teacher education program leading to an Alaska Type A Certificate with an endorsement in Technology Education grades 7-12. These requirements are based on the International Technology Education Association Program Standards.

Once the applicant has been admitted to the UAA teacher education program, evaluation of his/her progress toward certification will be guided by the “National Board for Professional Teaching Standards (NBPTS) for Career and Technical Education—Early Adolescence through Young Adulthood,” as well as the Alaska Content Standards for Students and the Alaska Teacher Standards for Professional Practice.

Applicants must have a baccalaureate degree in Technology or a related discipline. One or more years of journey level work in technology areas is recommended.

The following matrix is intended to guide the applicant in demonstrating content knowledge through Praxis II sub-scores, post-secondary transcripts, industry certification and/or relevant work experiences. The applicant should begin completing this document by listing courses in the appropriate matrix cell and attaching transcripts, test scores, industry certification and narratives documenting work experience. For coursework, applicants may be required to submit course syllabi, course products, or other documentation regarding the content of the course. When the documentation is work experience, the applicant must provide supporting evidence such as an annotated resume (supported by items such as letters of reference or employee evaluations) and a brief reference to this material in the appropriate cell. This evidence will be evaluated by a Career and Technical Education Faculty Advisor. Applicant will be notified if further evidence and/or course work is needed.

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Name _____ Social Security _____ Telephone _____

Advisor _____ Date _____ Praxis II Score _____

Institution awarding B.S.
in Technology Education
or related discipline _____ Year Awarded _____ GPA _____

ITEA Standard	Applicant's Coursework			Praxis II	Industry Certification or Work Experience		Meets Standard	Needs
Examples of UAA course/programs appropriate to the standard	Course	Grade	Year (Credits)	Subsection Score	Type	Date		
<p>Possess the necessary depth and breadth in mathematics, science, and related disciplines to be able to successfully teach technology education. (15 credits)</p> <ul style="list-style-type: none"> • MATH A107 College Algebra • MATH A108 Trigonometry • PHYS A123 Basic Physics • PHYS A123L Basic Physics Lab • PHYS A124 Basic Physics II • PHYS A124L Basic Physics Lab II 								
<p>Possess knowledge about the development of technology, its effects on people, the environment and culture; and industry, its organization, personnel systems, techniques, resources and products; and their impact on society and culture. (3 credits)</p> <ul style="list-style-type: none"> • VE A301 Principles of Technology 								

ITEA Standard Examples of UAA course/programs appropriate to the standard	Applicant's Coursework Course Grade Year (Credits)			Praxis II Subsection Score	Industry Certification or Work Experience Type Date	Meets Standard	Needs
<p>Communication: efficient use of resources to transfer information to extend human potential. (6 credits)</p> <ul style="list-style-type: none"> • TECH A335 Communications Systems • ET A183 Data Communications • ET A184 Telecommunications • ET A185 Transmitters & Receivers 							
<p>Construction: efficient use of resources to build structures or construct on site structures. (6 credits)</p> <ul style="list-style-type: none"> • TECH A320 Construction Systems • AET A101 Fundamentals of CADD for Building Construction • AET A102 Methods of Building Construction. • AET A123 Codes & Standards. 							
<p>Manufacturing: efficient use of resources to extract and convert raw/recycled materials into industrial and consumer goods. (6 credits)</p> <ul style="list-style-type: none"> • TECH A330 Manufacturing Systems • CM A202 Project Planning & Scheduling • WELDING 							
<p>Transportation: efficiently using resources to obtain time and to attain and maintain direct physical contact and exchange among individuals and societal units through the movement of material/goods and people. (6 credits)</p> <ul style="list-style-type: none"> • TECH A325 Transportation Systems • ADT A102 Introduction to Automotive Technology • ADT A140 Automotive Engine Repair 							

ITEA Standard Examples of UAA course/programs appropriate to the standard	Applicant's Coursework Course Grade Year (Credits)			Praxis II Subsection Score	Industry Certification or Work Experience Type Date		Meets Standard	Needs
Identify and incorporate safe and efficient use of contemporary technological tools, instruments, and machines into a program of study. (3 credits) <ul style="list-style-type: none"> • TECH A402 Operational Safety 								
Apply problem-solving and creative abilities involving human and material resources, processes, and technological systems. (3 credits) <ul style="list-style-type: none"> • TECH A433 Project Design Implementation and Control 								