

Industrial Technology Assessment Plan Rev. 9/16/2018

Industrial Technology	16-17	17-18	18-19	19-20	20-21	21-22
<b>INDTB10 - Industrial Technology Careers</b>						
• 1. Upon successful completion of the course, the student will be able to identify and assess personal characteristics such as personality, values, skills, and interests and understand how this information may integrate toward effective career and life decisions.			P			
• 2. Upon successful completion of the course, the student will be able to identify career specific and transferrable job skills and develop a relevant education plan.			P			
• 3. Upon successful completion of the course, the student will be able to identify appropriate and relevant information to successfully create their own resume and cover letter.			P			
• 4. Upon successful completion of the course, the student will be able to analyze several decision-making models and implement a specific model to make a career choice.			P			
<b>INDTB48WE - Occupational Work Experience Education/Internship</b>						
• Upon completion the student will be able to: Articulate the specific work experience objectives in Industrial Technology as described by employer and identify the various skills, knowledge and attitudes necessary to the accomplishment of those objectives.			P			
• Upon completion the student will be able to: Demonstrate the acquisition of the various skills, knowledge and attitudes necessary to the completion of the work experience objectives in Industrial Technology and the ability to effectively meet employer's job expectations.			P			
• Upon completion the student will be able to: Identify and analyze the application of acquired skills, knowledge and attitudes to career opportunities in Industrial Technology.				P		
<b>INDTB72 - Special Problems in Electronics</b>						
• 1. Upon successful completion of the course, the student will have adequately demonstrated the abilities to research, plan, assemble the needed materials and resources, implement, and assess/evaluate the performance and/or quality of a significant project or complex procedure or operation.			P			
• 2. Upon successful completion of the course, the student will have participated in one or more activities designed to instruct, demonstrate, direct, and supervise other students in Electronics and Automation Technology courses.			P			
• 3. Upon successful completion of the course, the student will have evaluated his/her performance regarding project management, project/task implementation, instructing and demonstrating electronics and automation technical knowledge and skills, and employability skills using feedback provided by peer assessments and performance reviews.			P			
<b>INDTB271 - Special Problems in Welding</b>						
• Upon completion the student will be able to: SLO #1: Safety Student will illustrate the concepts of safety, correct tool usage, and apply these skills in the lab environment.			P			
• Upon completion the student will be able to: SLO #2: SMAW Students will summarize the setup and operation of Shielded Metal Arc Welding equipment, and apply knowledge in lab			P			
• Upon completion the student will be able to: SLO #3: GMAW Students will summarize the setup and operation of Gas Metal Arc Welding equipment.			P			
• Upon completion the student will be able to: SLO #4: FCAW Students will summarize the setup and operation of Flux Cored Arc Welding equipment.			P			
• Upon completion the student will be able to: SLO #5: GTAW Students will demonstrate the setup and operation of Gas Tungsten Arc Welding equipment on mild steel, and aluminum.			P			
• Upon completion the student will be able to: SLO #6: Oxy-Acetylene Cutting Students will illustrate the setup and operation of Oxy-Acetylene cutting equipment and demonstrate safe use to peers.			P			
• Upon completion the student will be able to: SLO #7: Plasma Arc Cutting Students will summarize the setup and operation of Plasma Arc cutting equipment and demonstrate safe use to peers				P		
• Upon completion the student will be able to: SLO #8: Welding Certification Students will explain when a welder is certified to a welding procedure and be able to explain welder qualification to others.				P		
• Upon completion the student will be able to: SLO #9: Welding Codes Students will demonstrate the relationship of codes to welds being made, and be able to transfer that knowledge to other students.				P		

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<b>INDTB274 - Special Problems in Wood Working</b>						
• Upon completion the student will be able to: Student Learning Outcome: The student, given proper instruction, will research and review various technical topics and describe the necessary tools, equipment and skill requirements. The student's knowledge and skill level will be demonstrated by achieving a minimum 70% score on all lab exercises and examinations as detailed in the "Petition for Individual Study" form. Objectives: A. In consultation with the instructor, the student will develop meaningful and clearly stated project objectives for the topic investigated. B. The student will explain orally and in writing the description of the specific problem to be investigated and be able to explain how this problem will assist them in enhancing their specific career goal. C. The student will demonstrate progress concerning the specific problem through written or oral reports submitted to the instructor.				P		
• Upon completion the student will be able to: Student Learning Outcome: The student will review, develop and employ safe work habits pertaining to the student's particular area of investigation. Objectives: A. The student will demonstrate effective work habits by utilizing proper safety equipment and practices during study. B. The student will be able to discuss and demonstrate safety requirements relative to the proper operation of various woodworking tools and equipment.				P		
• Upon completion the student will be able to: Student Learning Outcome: The student will develop and demonstrate technical skill and knowledge of various woodworking and/or cabinetmaking techniques and principles.				P		
• Upon completion the student will be able to: Communication in the English Language and Critical Thinking (6 units) Courses in language and rationality are those which develop for the student the principles and applications of language toward logical thought, clear and precise expression, and critical evaluation of communication. Take 3 units in oral communication and 3 units in written communication. A.1 Oral Communication 1. Form and present informative persuasive messages. 2. Demonstrate competence in both active and empathic listening. 3. Present oral messages to appropriate audiences and adhere to conventions of message delivery. 4. Manage personal communication apprehension and anxiety. A.2 Written Communication 1. Identify the controlling idea and the main points of college-level expository and argumentative essays. 2. Evaluate expository and argumentative essays through the application of critical thinking techniques. 3. Write logical and coherent expository and argumentative essays, summaries and paraphrases using correctly the standard conventions of written English. A.3 Critical Thinking (Critical thinking is the rational and reflective process of making and supporting judgments.) 1. Make judgments that skillfully interpret information and phenomena. 2. Skillfully support judgments. 3. Identify and skillfully explore assumptions, implications, and alternatives to judgments. 4. Identify and differentiate statements of opinion, matters of fact, and arguments. 5. Analyze arguments into supporting judgments and supported judgments. 6. Skillfully evaluate judgments. 7. Skillfully evaluate the support for judgments.				P		
• Upon completion the student will be able to: Physical Universe and Life Forms (6 units) Courses in the natural sciences are those that examine the physical universe, its life forms, and its natural phenomena. Further, courses in the natural sciences help the student develop an appreciation and understanding of the scientific method. Courses in the natural sciences, math and logic help students apply logical, qualitative and quantitative reasoning in solving problems or analyzing arguments. Take 3 units in Natural Sciences and 3 units in Math and Logic. B.1 Natural Sciences 1. Demonstrate a knowledge of natural phenomena and recognize the processes that explain them. 2. Demonstrate a knowledge of scientific methodologies when solving a problem. B.2. Mathematics and Logic (Analytical Thinking) 1. Apply formal systems of reasoning in solving problems or analyzing arguments.				P		
• Upon completion the student will be able to: Arts, Literature, Philosophy and Foreign Language (3 units) Courses in the Arts, Literature, Philosophy and Foreign Language are those which study the cultural activities and artistic expressions of human beings. The courses will help the student develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them. 1. Demonstrate an understanding and appreciation of the ways in which arts, literature, philosophy or foreign languages reflect historical, intellectual, and cultural contexts, as well as aesthetic tastes.				P		
• Upon completion the student will be able to: Social, Political, Legal, and Economic Institution and Behavior: Historical Background: (9 units for AA; 6 units for AS) Courses in the social and behavioral sciences are those which focus on people as individuals and as members of society. The courses will help the student develop an understanding of the methods of inquiry used by the social and behavioral sciences. For an AA Degree, take three units from American History and Politics, and three units from Other Social Science Courses, and 3 units from Behavioral Science. For the AS Degree, take three units from American History and Politics, or from Other Social Science Courses, and three units from Behavioral Science. 1. Demonstrate an understanding of the perspectives, theories, methods and core concepts of the social and behavioral sciences. 2. Explain the major problems and issues in the disciplines in their contemporary, historical and geographical contexts. 3. Demonstrate an understanding and appreciation of the contributions and perspectives of women, ethnic and other minorities, and Western and non-Western peoples.				P		
• Upon completion the student will be able to: Lifelong Understanding and Self-Development (3 units) Courses in this area will prepare students for lifelong integrated physiological and psychological development. 1. Critically examine the development of the individual as an integrated physiological, psychological, spiritual, and social being. 2. Identify, describe and explain the interactions of the internal and external influences and effects in human development and behavior over the course of the human life span.				P		

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INDTB275 - Special Problems in Automotive Technology						
• Upon completion the student will be able to: Instruct, demonstrate, direct, and supervise other students in automotive technology courses.			P			
• Upon completion the student will be able to: Plan, assemble the needed materials and resources, implement, and assess/evaluate the performance and/or quality of a significant project or complex procedure or operation.						P
• Upon completion the student will be able to: Evaluate his/her performance regarding project management, project/task implementation, instructing and demonstrating automotive technical knowledge and skills, and employability skills using feedback provided by peer assessments and performance reviews.				P		