

Student Learning Outcomes Library

Office of Assessment & Accreditation

Indiana State University

BS Electronic Engineering Technology

Spring 2020

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Outcome	Related Foundational Studies or Graduate Goal
Mastery of knowledge and tools	
1.1 Application of circuit analysis and design	
1.2 Application of circuits, design, and application	
1.3 Application of digital electronics	
1.4 Application of computer programming and software	
1.5 Apply science, math, and engineering tools	
1.6 Apply PLCs, robotics, and control system equipment	
1.7 Engineering materials and manufacturing processes: Students will use fluid power, engineering materials, and manufacturing processes	
1.8 Management techniques and processes	
Apply technical knowledge	
2.1 Use mathematics in design	Foundational Studies IIIa: Quantitative Literacy
2.2 Modeling for analysis	
2.3 System design	
Experiment and apply results	
3.1 Conduct experiments	
3.2 Analysis and interpretation of laboratory exercise	
3.3 Test plans	

Be creative in design and application	
4.1 Circuit design	
4.2 Software and program development	
4.3 System design and control	
Function effectively in environment	
5.1 Effective team member	
5.2 Understands the purpose of teams	
5.3 Works and communicates well in the team setting	Foundational Studies 10: Express themselves effectively, professionally, and persuasively both orally and in writing.
Effective problem solving	
6.1 Effectively use problem solving methods	Foundational Studies 2: Critically evaluate the ideas of others.
6.2 Use electrical troubleshooting tools properly	
6.3 Debugs logic and software applications	
Effective communication	
7.1 Exhibits good verbal communications	Foundational Studies 10: Express themselves effectively, professionally, and persuasively both orally and in writing.
7.2 Possesses good written communication skills	Foundational Studies 10: Express themselves effectively, professionally, and persuasively both orally and in writing.
7.3 Formality and respect in communication	Foundational Studies 10: Express themselves effectively, professionally, and persuasively both orally and in writing.
Embrace lifelong learning	
8.1 Demonstrates a desire to learn	
Professional and ethical responsibilities	
9.1 Demonstrates professionalism	
9.2 Understands and exhibits ethics	

9.3 Understands the role of professional societies	
Diversity and professionally responsibilities	
10.1 Automated control system marketplace	
10.2 Understands social responsibility	
10.3 Safe design practices and operations	
Embrace quality	
11.1 Understands the breadth of quality concerns	
11.2 Understands the importance of quality	
11.3 Understands timeliness and continuous improvement	